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Mr. WILSON gave particulars of a large number of experiments which he had made with a view to ascertaining the cause of the colour. He found that the addition of a little potassium or sodium hydrate completely discharges the colour before neutrality is reached, so that the mixture can still be dispensed as a colourless acid solution. Trial was made to see whether the mixture could be dispensed by using the equivalent of caffeine alkaloid, omitting the citric acid altogether, and the interesting discovery was made that the phenazone solution acts as an excellent solvent for the alkaloid. Not only can the correct proportion of caffeine be used, *i.e.*, 16 grains in 2 fl. oz., but double that quantity can be dissolved with ease, and the mixture still remain perfectly clear. So the preferable method is to dispense the prescription by omitting the citric acid and using the equivalent of caffeine alkaloid. The author was indebted to Mr. Wm. Duncan for a suggestion which had led up to the discovery of the real cause, *viz.*, that no commercial powdered citric acid is free from contamination with iron, and phenazone is so extremely sensitive to ferric iron as to give a very distinct reaction in the proportion of 1 in 50,000.

#### DISCUSSION.

Mr. DUNCAN said this question had bothered many dispensers during the past two years, and he was more than thankful that Mr. Wilson had worked it out to finality and had found that his (Mr. Duncan's) suggestion was really the true one. It was remarkable that all the citric acids he used would have passed the B.P. If they applied these tests to these citric acids they got no indication of iron, but if they burned 100 gr. of the acid and tested the residue they got a distinct reaction of iron. He recalled an observation by Mr. Hill to the effect that the B.P. should provide for the absence of metallic particles in such things as this.

Mr. C. F. HENRY stated that he had experienced this trouble, but got over it by mixing the phenazone, caffeine citrate, and sodium bromide together before dissolving; thereby the brown deposit is avoided.

Mr. COWIE did not quite see how ferric iron could be present in citric acid, as the tendency of citric acid was to reduce ferric compounds to the ferrous condition.

Mr. RUTHERFORD HILL thought it was absolutely established that the samples of citric acid and caffeine citrate unquestionably contained iron. Mr. Hill showed the mixture prepared by using very pure citric acid crystals, which gave no reaction with potassium sulphocyanide; it was of a distinct straw colour, whereas a similar mixture prepared with the same materials, but excluding the citric acid, was water-white. Though the solution of citric acid gave no iron reaction with potassium sulphocyanide, a distinct reaction was obtained by adding the sulphocyanide to the powdered crystals. That seemed to indicate that phenazone is an even more delicate reagent for iron than potassium sulphocyanide. Phenazone gave quite a recognisable reaction with an aqueous solution of ferric chloride, containing only one part of iron in 75 million parts of solution. Long before this degree of dilution was reached neither phenazone nor sulphocyanide gave the characteristic reaction unless the solution was kept distinctly acid by the addition of hydrochloric acid. Apparently the iron, because of the basic action of the water, passed into a colloidal condition in which it does not act with sulphocyanide of potassium or phenazone. All the mineral acids examined gave with potassium ferrocyanide distinct evidence of a trace of iron. This possible error, however, was excluded by a blank experiment, and he found that in the proportion of one part of iron in three million parts of solution the reaction was very distinct, and in the proportion of one part of iron in seventy-five million parts of solution it was still perfectly recognisable by placing the solution in a Nessler tube and adding the phenazone. Mr. Donald McEwan (who supplied the second prescription) in a note said he agreed with Mr. Wilson's conclusion, except he was not clear changing the prescription by the substitution of alkaloid for caffeine citrate should be adopted. Mr. Hill pointed out that the difficulty in that connection was that the colour of the mixture would vary as the percentage of iron in the samples of caffeine citrate varied.

## Chemical Society.

A MEETING was held at Burlington House, on Thursday, December 16, Professor H. B. Dixon, F.R.S., in the chair. There was a poor attendance, and the papers, with one or two exceptions, were of little pharmaceutical interest. The President reminded the Society that they had again to deplore the loss of a prominent Fellow, Dr. Ludwig Mond. The meeting passed a resolution condoling with the bereaved family, which referred especially to the great services rendered by Dr. Mond, both in the way of original work and in benefactions to scientific institutions. In the latter connection the foundation of the Davy-Faraday Research Laboratory and the subsidising of the Royal Society's Catalogue of Scientific Papers were especially mentioned. The President also announced that in May or June next it was proposed to entertain at dinner four Past-presidents of the Society who had attained their membership jubilee—*viz.*, Sir Henry Roscoe, Sir William Crookes, Professor Vernon Harcourt, and Dr. Hugo Müller. Full particulars of the dinner will be announced later. The first paper was on the

#### PRODUCTION OF *Para*-DIAZOIMIDES

from alkyl- and aryl-sulphonyl-*para*-diamines, and was contributed by Dr. Morgan and Mr. Pickard. It gave rise to a discussion among the "colour" chemists as to the formulation and nomenclature of these bodies, with occasional references to the perennial question, "When may a body be described as a quinone?" Some of the new substances described gave on silk very pleasant colours, varying from salmon pink to a bright terracotta, and the authors have already discussed the practical value of these new dyes in another place. The next paper, by Dr. Morgan, Miss Micklethwait, and Mr. G. S. Whitby, was more promising from a pharmaceutical point of view, as it dealt with

#### ORGANIC COMPOUNDS OF ANTIMONY.

The first two authors have described already ("Trans. Chem. Soc." 1903, p. 2144) a series of derivatives obtained by the interaction of arsenic trichloride with sodiumcamphor, and in the present paper compounds obtained by the action of sodiumcamphor on antimony trichloride were dealt with. The most important substance prepared was tricamphorylstibine chloride, whereas in the case of arsenic trichloride dicamphoryl derivatives only were obtained. The new antimony compounds were tried physiologically, and exerted some action, but owing to their insolubility in the usual solvents they are quite unsuitable for medical use.

The next paper was a contribution from the Wellcome Chemical Research Laboratories, by Messrs. Tutin and Clewer, on

#### THE CONSTITUENTS OF RUMEX ECKLONIANUS.

*Rumex Ecklonianus*, Meisner, is an herb indigenous to South Africa, where it is reputed to possess medicinal properties. An alcoholic extract of the herb, when distilled with steam, yielded a trace of a substance which formed yellow prisms, melting at 159° C., together with a small amount of essential oil. The non-volatile constituents of the extract consisted largely of brown resinous matter, but the following definite substances were also isolated: Ceryl alcohol; a phytosterol,  $C_{26}H_{54}O_2$ , apparently identical with rhamnol; palmitic, stearic, oleic, linolic, and isolinolenic acids; a small amount of ipuranol,  $C_{22}H_{38}O_2(OH)_2$ ; kempferol; chrysophanic acid; emodin; and emodin monomethyl ether; together with traces of other crystalline substances and large amounts of inorganic salts. A sugar which yielded *d*-phenylglucosazone was also present in small amount, but no evidence could be obtained of the presence of a glucoside. The emodin monomethyl ether which was isolated was identical with that obtained by Perkin and Hummel from *Ventilago madrasapatana*, and with that prepared synthetically by Jowett and Potter. The dimethyl ether of chrysophanic acid was prepared, and obtained in the form of yellow prisms, melting at 190° C.

The Society adjourned until January 20, 1910.

# Winter Session of Chemists' Associations.

## Brief Records.

**Leeds Chemists' Association.**—A meeting was held at the Grand Restaurant, Boar Lane, on Thursday, December 16, Mr. F. Pilkington Sargeant (President) in the chair, when an interesting paper on "The Apothecary and his Wares in Shakespeare's Days," by Messrs. F. Pilkington Sargeant and J. H. Beacock, was read. The vote of thanks accorded to the authors was moved by Mr. T. Horner, seconded by Mr. S. R. Mundell, and supported by Mr. G. W. Norfolk and others.

**The Chemists' Assistants' Association's** second musical and social evening of the session was held at 73 Newman Street, on Thursday, December 16. Mr. R. H. Brittain was in the chair, and an excellent programme was provided by members and their friends. Mr. Morrice rendered good service as accompanist, and the following gentlemen in song and recitation: Messrs. A. H. Millner, C. S. Presant, J. Williams, E. Jamieson, R. Lownsbrough, H. Grange, R. Maloué, and A. Barbour. A collection, which realised 10s., was taken in aid of the Benevolent Fund. At the close of a very enjoyable evening Mr. F. S. R. Loxley (President of the Association) thanked Mr. Brittain and the artists for their services, and the meeting concluded.

**Irish Chemists' Assistants' Association.** A meeting was held at the rooms, 48 Talbot Street, Dublin, on December 16. There were between seventy and eighty persons present. Mr. Ridge was voted to the chair and briefly explained the objects for which the Association was founded. Mr. Harne delivered his inaugural address, which occupied an hour. In the course of it he said that every post brings in applications for membership. The club, which is to be supplied with books and magazines, is to be opened each day at 7 p.m. The first work of the Association will be directed to obtaining for its members shorter hours, a weekly half holiday, and better pay. Referring to the salaries paid to assistants, the speaker said he knew of a case where an unqualified assistant was paid only 7s. 6d. a week. Mr. Harne also mentioned that a cricket club and a football club are to be started.

**Leicester Chemists' Association.** A meeting was held at the Turkey Cafe, Leicester, on December 7. Mr. A. D. Hearnshaw (Vice-President) in the chair. Mr. Marlitt (Secretary) reported that he had written the Edwards' Harleco Co. re the extreme cutting of their preparations in the town, and urging them to put their goods on the P.A.T.A. list. A letter had been received in reply, merely suggesting local arrangements between members of the Association. Mr. Marlitt and Mr. McMillan urged members to write to the Harleco Co. about the matter. Mr. H. A. Martin read a paper on "The Art of Window dressing for Chemists," a subject in which (as his photos in the *C. & D.* have proved) he is an adept. The paper provoked a lengthy discussion on the merits and demerits of "one thing" shows, and on the motion of Mr. Hampton, seconded by Mr. Lewis, Mr. Martin was most heartily thanked.

**National Union of Assistant Pharmacists.** A meeting of the Birmingham Branch was held at the Carlton Cafe, Temple Street, on Monday, December 20. Discussion of the General Executive's report was completed, and the following resolution passed:

That this meeting expresses its approval of the action of the Executive in proposing to run two candidates for the Council election, and considers it sound policy that the candidates should be restricted to Union members.

The following were nominated for the ballot at the annual meeting: President, James Smith (London); Vice-President, J. B. Waldron (Liverpool); Treasurer, J. M. Dowty (Bristol); Secretary, F. Bullen (London). Executive Committee: L. McNab (Glasgow), F. Bentley (Birmingham), J. Elder (Newcastle), A. A. Auger (Sheffield), J. Findlay (Bristol), H. Hines (Weston-super-Mare), and J. Gibson (Birmingham). It was decided to advise the Executive to hold the next annual meeting at Manchester.

**Cardiff Chemists.** A meeting was held at the Angel Hotel, Cardiff, on December 15, for the purpose of hearing Mr. Harold Miller, Chairman of the United Chemists' Association, Ltd. Mr. Hopkins, of Barry, presided. Mr. Miller put before the meeting the points in which he believed his company differs from others formed, and emphasised the fact that the holding of its shares is confined to pharmacists, and that one of its objects is to secure by co-operation profits to the pharmacist which now go to unqualified men and companies. The method of working was fully explained, and

details of what has been already done were given. Mr. J. Gilbert Jackson (Sheffield) also spoke, and gave details of the work being done at the Ucal factory and submitted specimens. Messrs. Bellamy, Davies, Hicks, Lea, Williams (Cardiff), Davies (Newbridge), Allen (Barry), Richards (Cardoxton), Rees (Barry Dock), Poole, Murray, and Gratte (Newport) asked for particulars on various points, which were given; then the Chairman, in proposing a vote of thanks to Messrs. Miller and Jackson, said he had been greatly impressed by the businesslike and straightforward way in which all the questions had been dealt with. Mr. Hicks seconded, and the vote was carried.

**N. Staffs Chemists' Association.**—A meeting was held at the Roebuck Hotel, Stoke-on-Trent, on December 16, Mr. W. Tipper (Stoke) presiding. Messrs. T. Bentley, Hon. Secretary (Stoke), J. B. Blades (Leek), E. Corner and F. C. Burrell (Hanley), E. Mellor (Uttoxeter), J. A. Dale (Stoke), W. D. Edge (Wolstanton), S. C. Challinor (Fenton), R. B. Kennington (S. Maw, Son & Sons, Ltd.), E. Griffiths (Kiddsgrove), and H. W. Oliver (J. C. & J. Field, Ltd.) were also present. It was decided to discuss at the next meeting a letter from the Birkenhead and Wirral Chemists' Association regarding the decision in the Mercer case. Mr. E. Mellor, of Uttoxeter, read a paper entitled "The Organisation of the Forces of Pharmacy." This was a free criticism (destructive and constructive) of the Pharmaceutical Society. Its first object was to impress upon the Society the importance of catching chemists young, and following up reorganisation in this department by appointing travelling secretaries (a sort of hybrid canvassing inspectors) so as to get more members and facilitate the administration of the Pharmacy Act. Mr. Mellor next dealt with the Council, suggesting that no councillor should hold office for more than six years in succession, and the President should not be so for more than three years in six. A discussion followed. Mr. Blades was the first to speak, and his remarks were confined to severe criticism of the Pharmaceutical Society. Mr. Griffiths considered that Mr. Mellor's proposal regarding apprentices was very good, and he advocated extended powers for the Pharmaceutical Council to inquire into cases of infringement. Mr. Corner, Mr. Kemp, Mr. Edge, Mr. Challinor, and the Chairman also spoke, and Mr. Mellor briefly replied. It was decided to hold the annual dinner early in February.

**Northampton Pharmacists' Association.**—A meeting was held on December 16, when an address was given by Mr. A. J. Chater, of the Pharmaceutical Society's staff, on what the Society is doing for the protection and promotion of the interests of chemists. Mr. E. Dennis (President), was in the chair, and Messrs. W. D. Mayger, W. McKinnell, A. Armitt, G. Ingle, L. North, F. C. Ashford, D. McKinnell, W. Gatehouse, J. F. Harris, and the Hon. Secretary (Mr. F. Cowdery) were also present. Mr. Chater, in the course of his address, said that chemists had been kept in a condition of modified mystery with regard to what the Council was doing, and consequently were compelled to rely upon the reports in the trade journals, but these reports could not give them sufficiently comprehensive information to enable them to judge safely and soundly on such questions as the administration of the new Pharmacy Acts or facts that underlie the use of the word "pharmacy." The only way in which adequate information could be conveyed to them was for an officer of the Society to meet them in private conference—a policy of mutual confidence and co-operation. He then gave a lucid description of the past and present state of pharmacy law and the efforts made by the Society to prevent free trade in poisons. He pointed out that agri-horticultural licences apply only to a very restricted number of articles, and if the licensees go outside them they come into the net of the Pharmacy Act. The licence has to be renewed annually, and there is a considerable amount of responsibility and trouble involved in keeping within the law. The Council is keeping a very strict watch for irregularities or infringements, and intend to rely more upon the existing powers under the Act than upon appeals to Parliament. The discussion was opened by Mr. W. McKinnell, who expressed himself greatly dissatisfied with the trend of recent legislation. Mr. Ashford was convinced that the Society had done all that it possibly could. Mr. Harris said Mr. Chater's speech had been to him a clear confirmation of what Sir John Gorst once told him when they were travelling together in Germany, that we in this country, despite our representative Government, are ruled far more by officials than in a great many cases in Germany itself. Our Legislature delegated its powers to much, and if they sought the roots from which legislation and



administration sprung they would find it in official staffs. Mr. Armitage said it was an important thing that chemists' associations throughout the country should ascertain from the town clerks when renewals of poison licences would be considered. Many questions were put to Mr. Chater, who answered them all in such a courteous and comprehensive manner that at the close thanks were heartily accorded him on the proposition of Mr. W. McKinnell, seconded by Mr. Mayger.

#### Oldham Pharmaceutical Association.

At a meeting held at the Café Monico, Oldham, on Tuesday, December 14, Mr. C. Gartside (President) in the chair, a paper on

##### THE HISTORY OF LOCAL PHARMACY

was read by Mr. F. Davies. The author had obtained much information from Mr. H. L. Hargraves and Mr. Hiram Bates, two of the oldest members of the trade in the district, while old local directories and Butterworth's "History of Oldham," 1817, were also consulted. In 1830 druggists' shops in Oldham opened at 7 A.M. and remained open until 11 P.M., but the assistants and apprentices had a half-holiday each alternate Tuesday from about 3 P.M. The title "druggist" was used in these days, and it was not until 1840, when the Pharmaceutical Society was founded, that "chemist" was tacked on. The trade was heavy oils, colours and paints constituting a large part of the business. It was after 1817 that the names of druggists began to appear in the directories—Daniel Orme was the first; he was a druggist and confectioner in 1819. When a meeting was called in Manchester by the Pharmaceutical Society in 1841, Mr. William Braddock and Mr. James Hargraves, of Oldham, attended, and the first persons to join the Society from Oldham were William Braddock, Market Place; James Brelsford, Market Place; George Cocks, Mumps; James Hargraves, High Street; and Eli Wood, Greenacres Moor. The author commented upon the fact that for the past seventy years few Oldham chemists have been identified with the administration of local affairs, but at present Mr. H. L. Hargraves is most prominent in this connection. The only apothecary in Oldham in the early years of the last century was Mr. Hudson, at the corner of King Street. Then James Brelsford, who had worked for Mr. William Braddock, opened a shop at the top of George Street (which has since gone through many hands), and in 1839 he opened one at 32 Bottom-o'-the-Moor; this business remained in the hands of his family until three years ago, when Sutcliffe's, Ltd., took it over. The author added particulars of the pharmacies that have since been opened in other parts of the town. Previous to the present Association being founded there was in Oldham a Chemists' Assistants' and Apprentices' Association, of which Mr. Martin (assistant to Mr. Hargraves) was President, and Mr. C. Granville Wood, Secretary. An interesting discussion followed the reading of the paper, in which Messrs. Gartside, Cooper, Lees, Yates, Newby, and Bagshaw took part.

#### North-East Lancashire Chemists' Association.

A SPECIAL general meeting of this Association was held at Blackburn on December 21. Alderman R. Shorrocks, J.P. (Darwen), presided.

##### PARLIAMENTARY MATTERS.

Mr. J. Rennie, Secretary, said he had received communications from chemists' organisations at Bradford, Lancaster, Dewsbury, Manchester, Scarborough, Oldham, Sheffield, Leeds, Liverpool, and Blackpool concerning the suggestion of the North-East Lancashire Association to call a joint meeting to discuss the present situation in pharmacy. The Pharmaceutical Society had also acknowledged the resolution passed at their last meeting respecting the Mercer case. Mr. Rennie also mentioned that the Executive Committee had met a few days previously, and they decided to request Mr. E. Highton and Mr. R. L. Gifford to interview Mr. Philip Snowden, M.P., Labour Member and Candidate for the Borough, with a view to ascertaining his opinion as to the most effective manner in which to frame questions to submit to Parliamentary candidates in order that they might have the 1908 Act amended, or induce the new Government to introduce a short measure to give effect to the promises of Mr. Herbert Samuel, and to the intentions of their recent Act.

Mr. Highton (Divisional Secretary) said they would be aware that the Pharmaceutical Council had been both very active and very inactive. They were very active in appointing Mr. Glyn Jones to represent their interests without seeking the opinions of the individual members. The Society gave Mr. Jones credit for being a clever barrister and adviser, but he should have foreseen the weakness of the Poisons and Pharmacy Act. In regard to the authority given to him to interview the four Parliamentary candidates for Blackburn he interviewed Mr. Philip Snowden on December 18. Naturally, he was very busy at such a period, having several deputations to meet, but he courteously conversed with him on the question. Continuing, Mr. Highton said that a special gathering had been called to discuss three important points. The first related to the advisability of organising a mass meeting of chemists in Lancashire and Yorkshire to debate the situation caused by the recent unfavourable decision. Secondly, to consider the policy pursued in many towns of indiscriminately granting poison-licences; and, thirdly, the question of approaching the candidates. Mr. Highton added that they had the positive assurance of responsible Cabinet Ministers that the purpose of the recent Act was to reserve the title "pharmacy" to "pharmacists." He questioned Mr. Snowden on this matter, and Mr. Snowden wrote him as follows:

"It is perfectly true that Mr. Herbert Samuel said to me, in the committee of the Pharmacy Bill, that it would *not* be possible to use the word 'pharmacy' except to describe the business of a 'pharmacist,' and that was to be restricted to the man carrying on the business. It was distinctly implied in Mr. Samuel's reply that the word 'pharmacy' could not be used by a company."

That, continued Mr. Highton, was very plain English, and there was no getting over it. In conclusion, Mr. Highton said the questions it was proposed to submit to the candidates read:

(a) Will you, if elected, support an amending Bill to make effective the avowed intention of the Government respecting titles, as expressed during the passing of the Pharmacy Act, 1908?

(b) And to prevent the indiscriminate granting of poison-licences by local authorities which has become so general, this wholesale granting of poison-licences being altogether contrary to the definite assurance made from time to time by responsible members of the Government during the passing of the Bill?

Mr. W. Holt, in moving a resolution approving of the questions being submitted, expressed the opinion that it was the duty of the Council to submit questions of this character to candidates throughout the country. Their inactivity in this direction appeared to him to be on a par with everything they had done during the last few years.

The Secretary: It is summed up in Mr. Snowden's letter in which he says that if "your Society desired to do their very worst for you, they could not have done it in a better manner." (Hear, hear.)

Mr. Holt added that he thought the North-East Lancashire Association ought to take this question up. The Pharmaceutical Society appeared to throw all responsibility on the chemists themselves instead of fighting their battles. They shirked action, awaited reports which were too late when they got them, and then omitted to take action to support the opinions their members held.

Mr. Grimshaw said the general body of chemists should decide whether they are going to send a similar set of representatives to the Council in May. If they continued to elect this class of representatives, then they must expect the same thing to continue without reform.

Mr. R. L. Gifford dealt with the "pharmacy" case, and said strong endeavours should be made to secure the title "pharmacist" for the future. No real attempt had been made by the Council, however, to confirm the essential thing. So long as the Council had refused to go to the Government concerned and keep them to their expressed assurances, they had failed to do what they ought to have done.

The resolution was carried, and it was also decided to communicate with the towns named, suggesting that there should be a meeting at a convenient date before next Council meeting to discuss the present pharmaceutical position.

## Trade Report.

**NOTICE TO BUYERS.**—The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers stock the goods. Qualities of drugs and oils vary greatly, and higher prices are commanded by selected qualities even in bulk quantities. It would be unreasonable for retail buyers to expect to get small quantities at anything like the prices here quoted.

42 Cannon Street, E.C., December 23.

THE chemical, drug, and produce markets this week show an all round decline in the volume of business done, and already a holiday tone is apparent. Changes in value have been few and of little significance. Menthol has been a feature, with a fair business for American and Continental account at higher rates. Quinine is a shade firmer, but the rather heavy bark shipments from Java for the half month were disappointing to the market. Quicksilver is slightly easier in second-hands. Citric acid is nominal, tartaric acid is steady, and cream of tartar maintains the previous firmer tendency. Sales of China crude camphor have been made at easier rates, but refined Japanese is firmer in some quarters; this is one of the articles expected to improve in the New Year. Cod-liver oil varies considerably in price. The official rates for santonin have at last been fixed. Buchu sells at full rates, and genuine culchs are scarce and dear. Ergot is rather firmer. Jamaica honey will probably be higher. Lemon, bergamot, and orange oils are all a trifle firmer. Peppermint is dull. Sassafras bark of root is higher in America. Russian anise and fennigreek are firm. Canary is neglected, and linseed is scarce. The principal changes are as under:

Higher	Firmer	Easier
Ergot	Bergamot oil	Camphor (China or spot)
Fennel seed	Copper sulphate	Quicksilver (second-hand)
Indiarubber	Cream of tartar	Quillaia (c.i.f.)
Menthol	Lemon oil	
	Quinine	
	Sassafras bark	

### Cablegram.

NEW YORK, December 23: Business in drugs is quiet. Opium is 10c. lower again at 85.75 per lb. for druggists'. Cascara sagrada is nominal at 7c. Hydrastis (golden seal) is firmer, but quotably unaltered at \$1.90. Copiba is steady at 45c. for Central and South American. Peppermint oil is steady at 82 per lb. in tins. Senega is firm at 60c., and jalap is lower at 35c. per lb.

### Heavy Chemicals.

Quietness all round is the main feature of the heavy-chemical trade, and orders for prompt delivery are restricted as much as possible. There are moderate inquiries for forward delivery about, but actual bookings are not just at present of moment. Tone of the market generally is good, and values do not fluctuate much.

**SULPHATE OF AMMONIA.** This market is very steady, and there has been a better demand from all quarters, with the result that the tendency of prices is better. Present nearest figures: Beekton prompt, 11/ 8s. 9d.; January-June, 11/ 12s. 6d.; Beekton terms, 11/ 2s. 6d. to 11/ 3s. 9d.; London, 11/ 2s. 6d. to 11/ 3s. 9d.; Leith, 11/ 8s. 9d.; January-June, 11/ 10s.; Liverpool, 11/ 7s. 6d.; and Hull, 11/ 5s. to 11/ 7s. 6d.

**ALUMINA PRODUCTS** keep steady, and the demand is a fair average. Crystal alum lump, 5/ 5s. to 5/ 12s. 6d.; lump in tierces, 5/ 10s. to 5/ 17s. 6d.; and ground in bags, 5/ 15s. to 6/ 2s. per ton free on rails Lancashire and Yorkshire or f.o.b. Hull, Goole, or Liverpool. Sulphate of alumina, purest qualities, practically free of iron, ordinary strength, 4/ 12s. 6d. to 5/ 2s. 6d. per ton in casks, with usual extras for similar pure quality in higher concentrations and ordinary allowances

for bags and loose slabs. Alumino-ferrie, 50s. to 57s. 6d. per ton; and aluminous cake, 50s. to 57s. 6d. per ton, according to quality, quantity, and condition. Hydrate of alumina, purest quality and highest strength, Al<sub>2</sub>O<sub>3</sub>, 12/ 10s. to 13/ 10s. per ton free on rails in large casks. Special pulp hydrate of alumina, 15s. to 17s. 6d. per cwt. c.i.f. Special pulp quality dried in lumps, 35s. to 37s. 6d. per cwt. c.i.f.; and ground, 37s. 6d. to 40s. per cwt. Aluminate of soda, purest quality and high strength, Al<sub>2</sub>O<sub>3</sub>, 27s. 6d. to 30s. per cwt. Carbonate of alumina, 32s. 6d. to 35s. per cwt.

### Manchester Chemical-market.

December 21.

Although on export account there has been a good business passing, values do not correspond with quantities; the last-named being much larger than the former. In the textile-districts there is great quietude, but a fair amount of business is reported in heavy chemicals generally during the ensuing twelve months. Sulphate of copper shows a slight improvement, and for forward delivery makers do not seem inclined to quote, except at full late rates. Acetic acid continues steady, and in active demand; but there is some quietness in brown acetate of lime. White powdered arsenic is a shade better, but there is not much movement to note. Cream of tartar and acids show little improvement. Zinc salts are quoted higher. In coal-tar products there is not much change to note in either benzols or carbolic acid. Sulphate of ammonia continues on the up grade, being quoted 11/ 1s. 3d. to 11/ 2s. 6d. per ton, on rails Manchester.

### Kauri Gum.

The Wellington correspondent of "The Times" on December 13 telegraphed that "an official of the Commerce Department, reporting on the kauri industry, says that a ring exists in London with the object of keeping prices low." This statement has been controverted by Mr. H. P. Norton, who on December 21 wrote to "The Times" as follows: "The kauri gum shipped to London on consignment is sold by public auction at sales in Mining Lane every month, where every consumer even can purchase a single case if he chooses. Most kauri merchants in Europe, however, buy their gum in New Zealand, where the market is regulated by supply and demand and influenced to a greater extent by the American demand than that of Europe."

### The Petrol-tax.

The Commissioners of Customs and Excise have issued a circular to motor-spirit importers informing them that the payment of the new duties on petrol have ceased to be enforced, but at the same time intimating that in the event of the new Parliament sanctioning the tax and making it retrospective, they (the importers) will be called upon to pay the duties accruing from the date of suspension. Recognising that whichever party comes into office in the New Year, the petrol-tax of 3d. per gal. will in all probability be enforced, all the large importers of motor-spirit have decided to continue paying the duties. It may not be generally known that the 3d. duty immediately became a 4d. one so far as the consumer was concerned, the wholesalers placing the whole burden upon the private consumer, in addition to an extra 1d. per gal. It is interesting to note that the importation of petrol into this country has considerably increased since the imposition of the tax. The Customs and Excise Commissioners have also issued a general order (Excise No. 48/1909) for the information of collectors, giving the regulations for the repayment of duty paid on or before December 3 in respect of motor-spirit used for purposes other than supplying motive power for motor-cars. No repayment, however, is to be made at present on certificates given in respect of motor-spirit received by claimants on and after December 4, those claims being held over pending further instructions. There are twenty paragraphs embodying the regulations.

### London Markets.

**ACID, CITRIC.**—With the present uncertain position there is very little business being done for next year's delivery. First-hand English remains nominal at 1s. 4½d., second-hands being obtainable at 1s. 3½d., and foreign is quoted 1s. 3¾d. to 1s. 4d.

**ACID, TARTARIC.**—The demand remains retail at the unaltered rates of 10d. for English and 9½d. for foreign.

**ANISEED** is firm at 24s. per cwt. on the spot for Russian and 37s. 6d. for Spanish.

**BALSAM, CANADA**, in barrels is quoted 2s. 10d. to 2s. 11d. per lb. net.

**BICUTE.**—Several small sales of round green have been made at 1s. 7d. per lb. Fifteen bales have arrived, but they are likely to be disposed of previous to the auction.



**CAMPHOR (CRUDE).**—Spot sales of China crude have been made at 135*s.* per cwt., which compares with 137*s.* 6*d.* last week.

**CAMPOR, (REFINED).**—Japanese is selling in small parcels on the spot, including 1 oz. tablets at 1*s.* 7*d.* and 2½ lb. slabs at 1*s.* 6½*d.*

**CANARY-SEED** continues depressed owing to absence of business, but quotations are nominally unchanged at 43*s.* 6*d.* to 45*s.* per quarter for Turkish, 42*s.* to 43*s.* 6*d.* for ordinary to fair Morocco, and 48*s.* for good, 45*s.* for clean River Plate, and 60*s.* to 75*s.* for fair to fine Spanish.

**CAWAWAY-SEED** is still quoted at 29*s.* to 31*s.* per cwt. for ordinary to good Dutch.

**CINCHONA.**—The exports from Java during the first half of December were 514,000 Amst. lb. against 461,000 last year and 747,000 in 1907.

**COPPER SULPHATE** is rather firmer, with Liverpool brands offering for prompt delivery at 18*l.* 15*s.* to 18*l.* 17*s.* 6*d.* per ton, and for March-April 19*l.* 10*s.* is quoted.

**CORIANDE-SEED** is steady at 8*s.* 6*d.* to 9*s.* per cwt. for common, and 9*s.* to 10*s.* 6*d.* for ordinary to good Morocco.

**CUBES.**—Genuine berries remain very scarce and dear: 6*l.* 10*s.* is asked for a few bags.

**CUMIN-SEED** is slow of sale at 35*s.* per cwt. for Morocco and 38*s.* for Malta.

**ERGOT.**—Business has been done this week at 1*s.* 4*d.* to 1*s.* 4½*d.* per lb. c.i.f. for Russian, these prices maintaining the recent firmer tone.

**FENNEL-SEED** is scarce, and 27*s.* 6*d.* per cwt. is now required for small lots on the spot.

**FENUGREEK-SEED** is firm at 9*s.* to 9*s.* 3*d.* per cwt. for Morocco.

**GAMBIER.**—Small sales of cubes have been made at 38*s.*, and block at 32*s.* spot.

**GUINEA GRAINS.**—An arrival of ten bags has taken place in Liverpool, from whence 73*s.* is quoted; on the spot prices are about 75*s.*

**HONEY.**—Judging from advices which have been received from various shippers of Jamaica honey, the recent hurricane appears to have caused serious damage to the apiaries in various districts of the island, and exporters have reason to believe that the market will be dearer in consequence. Prices of new crop Jamaica for shipment vary from 29*s.* to 33*s.* c.i.f. as to quality. Over 300 cases have arrived from San Francisco to London this week.

**HYDRASTIS.**—On the spot small lots are offered at 8*s.* 7*d.* net, and slightly less for quantity.

**LIME JUICE.**—The "Atrato" has brought 236 packages from Dominica. There is very little demand at the quoted prices of from 11*l.* to 1*s.* per gal. for fair to good.

**LINSEED** continues very scarce, and business has been done at 65*s.* to 66*s.* per quarter for good clean on the spot.

**MENTHOL.**—A fair business has been done at higher rates, principally for arrival for American and Continental account, the sales including Kobayashi at 8*s.* 3*d.* to 8*s.* 4½*d.* c.i.f. for near at hand, Suzuki for January-March at 8*s.* 4*d.* c.i.f., closing buyers of the latter at 8*s.* 4½*d.* c.i.f. From first hands Kobayashi is quoted 8*s.* 7½*d.* for January-March. The spot sales include Suzuki at 8*s.* 4½*d.* and 8*s.* 6*d.* for Kobayashi, but 8*s.* 7*d.* is now generally asked. The recent buying reveals that the spot stocks are by no means large, and several holders are not offering.

**OIL, ANISE, STAR.**—Small spot sales have been made at 4*s.* 7*d.*, and a little more is available at this figure; for shipment prices vary from 4*s.* 3½*d.* to 4*s.* 5*d.* c.i.f.

**OIL, BERGAMOT.**—According to advices from Reggio, the market shows an advancing tendency, sellers continuing reserved. New crop for shipment varies from 15*s.* 9*d.* to 16*s.* per lb. c.i.f. for finest quality.

**OIL, CASSIA.**—An advance of 2*d.* is asked for shipment, 30 to 85 per cent. c.a. offering at 3*s.* 8*d.* c.i.f., and on the spot 4*s.* is wanted.

**OIL, CITRONELLA.**—Ceylon is steady at from 1*s.* 0½*d.* to 1*s.* 1*d.* in drums, and 1*s.* 1½*d.* to 1*s.* 2*d.* per lb. in cases

on the spot; for January-March shipment 11½*d.* c.i.f. London has been paid.

**OIL, COD-LIVER.**—The recent firmer tone in Norway appears to be due to sellers holding off the market, in the hope of realising better prices for their unsold stock, of which there is plenty available. At the moment there is a wide variation in prices asked by agents on this side, from 70*s.* to 80*s.* being quoted. Business is said to have been done at 72*s.* 6*d.* c.i.f., and further bids are being submitted. Judging by the exports from the whole of Norway this year (about 40,000 barrels), consumption has not come up to expectations, and the inference is that there is a large quantity, probably between 20,000 and 25,000 barrels on hand in Norway. Our Bergen correspondent writes on December 20 that the market is firm at the equivalent of 72*s.* per barrel c.i.f. terms for finest non-congealing oil. The exports from Bergen amount to 15,797 barrels, against 22,080 barrels at the same date of last year.

**OIL, GERANIUM.**—Genuine Bourbon, the distillation of which is in the hands of a syndicate, has recently advanced in spite of large supplies. Formerly the price was about 8*s.*, but the spot price of one importer is 10*s.* 8*d.*

**OIL, LEMON.**—The latest advices from Palermo indicate that the lemon oil market is in an unsettled condition, both buyers and sellers continuing to maintain a reserved attitude. The increased export duty on citrate has somewhat upset the market, and unless lemon growers can be induced to sell their lemons at very low rates, the manufacture of citrate will be difficult. It is possible, therefore, that the manufacture will cease for a period, and any stoppage would influence the market for lemon oil. A solution to the present difficulty will have to be found, because the lemon growers and workers in the manufacture of citrate and oil process, who will suffer under the increased export duty, are likely to cause disturbances, should the Government persist in its intention to bolster up the Camera by attempting to stifle the citrate manufacture for a time. On the other hand, from the lemon growers' point of view, it will always be more convenient to sell the lemons for what they will fetch, rather than allow them to rot on the trees. It would therefore appear that the manufacture of citrate and lemon oil is, in any case, likely to be delayed, and the season will be later than usual. Later advices than the above indicate a firmer tone, with several agents offering good brands at from 3*s.* 1*d.* to 3*s.* 3*d.* per lb., c.i.f., London.

**OIL, LIME.**—The "Atrato" has brought 28 packages from Dominica. Market is quiet, at 1*s.* 6*d.* per lb. nominal.

**OIL, LINALOE.**—Increased consumption has taken place this year owing to the scarcity of linalyl acetate. New crop oil is quoted at 10*s.* 6*d.* per lb., while that obtained from seed is 1*s.* less.

**OIL, ORANGE,** like lemon and bergamot, shows an advancing tendency at primary sources, the values of finest brands being from 6*s.* 6*d.* to 6*s.* 9*d.*, c.i.f.

**OIL, PEPPERMINT.**—Quiet, with the best brands of Wayne County offering at 8*s.* 6*d.*, and H.G.H. at from 10*s.* 9*d.* London terms.

**OIL, TURPENTINE,** is practically unchanged on the week, American closing at 39*s.* 6*d.* on the spot.

**OPIMUM.**—The London market has practically closed down for the remainder of the year, there being no business to report.

Writing on December 11, a Smyrna correspondent informs us that the sales amounted to 135 cases, of which 130 cases were for the U.S.A. at 170 piastres, or equal to 18*s.* 6*d.* per lb. c.i.f. European ports for extra Karahissar, one case Yerli at 18*s.* 6*d.*, and five cases for interior speculators at 170 piastres to 173 piastres. This slightly easier feeling caused by the absence of buyers during the previous three weeks and the haste of small sellers to take their profit, will now contribute to a steadier feeling. The arrivals amount to 1,791 cases, against 1,941 cases at the same date of last year. Writing on December 11, another Smyrna correspondent confirms the above sale of 135 cases, including 130 cases extra Karahissar t.q. at 171 piastres, or 18*s.* 5*d.*, three cases ditto at 174 piastres, or 18*s.* 7*d.*, and one case Yerli at 181 piastres, or 19*s.* 5*d.* Native speculators bought five cases at 174 piastres, and holders now refuse to go under 176 piastres,

or 18s. 11d., as 15 cases are still wanted to complete American orders.

A Salonica correspondent, writing on December 13, states that although still maintaining a very firm attitude owing to the insufficiency of stocks, native holders accepted slightly lower than the top rates of November, but some important orders were executed this week for account of American firms, and this encouraged them to strengthen the rates. The sales for the fortnight ending December 13 amounted to 163 cases, against 120 cases last year. The following figures relate to the stocks in primary markets at the beginning of December:

	1906.	1907.	1908.	1909.
Cases ...	2,955	2,556	3,060	1,015

The prices that have ruled during the fortnight have been as follows: Druggists', 16s. 3d. to 17s. 6d.; richest manufacturing opium, 18s. to 18s. 3d.; soft shipping opium, as to quality, 17s. to 18s. 3d. per lb.

An advice from Smyrna dated December 18 reports sales of 27 cases for the U.S.A. at 170 piastres, or 18s. 6d., c.i.f. Large holders are abstaining from selling, and the foregoing sales have been effected with difficulty. The question exciting most interest is the stock figures. The stock in Constantinople is known to be 3.6 cases, of which 80 are of inferior quality. In Smyrna estimates are divided between 500 and 650 cases, of which 100 to 150 are of inferior quality. Arrivals amount to 1,877 cases, against 1,950 cases last year.

PETER (BLACK).—Quiet, with small sales of Singapore on the spot at 4d. per lb., and sellers of January-March shipment at 4½d., and March May at 4½d. c.i.f.

PETER (WHITE).—Small spot sales of fair Singapore have been made at 7d. to 7½d. per lb., and for arrival sellers quote March May at 7d. c.i.f. d. w.

POTASH SALTS.—The "Times" Berlin correspondent states that the Prussian Government is promoting in the Federal Council a Bill to regulate the production and sale of potash salts for the next twenty years. By the erection of a trading corporation, which will supersede the existing syndicate and will completely control sales, it is sought to prevent the "squandering of potassium salts abroad at unduly low prices," and by making the opening of new works depend strictly upon increase in sales, it is sought to remove the main obstacles to effective syndication of the potash industry. It may be remembered that considerable difficulty was experienced a few months ago in bringing the potash firms into harmony, and the collapse of the syndicate seemed at one time to be not improvable. The Government then announced that if the firms did not agree export duties would have to be imposed.

QUICKSILVER.—The importers' price remains at 9l. 15s., but second hand is a shade easier at 9l. 15s. per bottle.

QUILLAIM.—There is little alteration in spot prices, which are from 51l. to 72l. per ton net, but to arrive 27l. 10s. c.i.f. London is quoted in one quarter, being cheap. The *Saracento*, from Valparaiso to Liverpool, has brought 684 bales.

QUININE.—The firmer tone of last week is maintained, and although speculation is a dead letter, there has been some quiet buying lately of small cheap parcels of German brands. These have now been absorbed, and we do not suppose it is possible to buy B. & S. or Brunswick at under 7d. for old and 7½d. for recent from second hands. The improvement is not so marked on the "outside" brands, Amsterdam being obtainable at 6½d. and Java at from 6½d. to 6¾d. per oz., with a fair inquiry at these figures. It is said the brokers for Java quinine have withdrawn an offer. The note which we publish on another page on Java cinchona developments is of interest in this connection, especially the fact that the Government plantations are to reduce their output by 500,000 kilos. next year.

At the auction held at Batavia on December 15, 6,001 kilos. Ed. II. were offered, of which 5,809 kilos. were sold at an average price of 10.50 fl. (=about 3 cents Amsterdam unit), against 10.20 fl. (=about 2.85 cents Amsterdam unit) at the previous auction. An auction was also held on December 17 by the Amsterdam Quinine Works, when 1,417½ kilos. Ed. II. were sold at an average price of 10.89 fl. per kilo, against 10.89½ fl. paid at the previous auction. The next auction will be held on December 31, and will consist of 1,417½ kilos. (50,000 oz.). The exports of "quinine, quinine salts and combinations" from Germany during the ten months ending October were as follows:

	1907.	1908.	1909.
Kilos. ...	163,100	110,000	133,200

SANTONIN.—This week advices have been received from the Hamburg agents of the Turkestan factories that they have fixed their official prices as follows:—Under 28 lb., 34s. 3d.; 28 lb., 33s. 9d.; 55 lb., 33s.; and 1 cwt. lots 33s. per lb. c.i.f. London net prompt cash. The above prices are somewhat lower than had been anticipated, but makers are very reticent as regards delivery, so that uncertainty prevails on this point.

SASSAFRAS, BARK OF ROOT.—Holders in the U.S.A. ask the higher rate of 10d., but on the spot slightly less will buy.

SENEGA.—Quiet at from 2s. 5d. to 2s. 6d. per lb. net on the spot, according to holder.

SHELLAC is steady, with small spot sales on the basis of 67s. to 68s. for fair TN Orange, and for January-February shipment sellers quote 68s. c.i.f.

TONKA BEANS.—Angostura are obtainable at from 5s. to 5s. 3d. per lb. on the spot.

TURMERIC.—Madras finger is quoted 17s., and Bengal at 20s. spot, while for December-January shipment to the Continent 16s. 9d. c.i.f. has been paid. Small sales of Cochin split bulbs have been made at 13s. 6d.

WAX (VEGETABLE).—Japan is steady at 45s. on the spot, the arrival values being from 40s. to 40s. 6d. c.i.f.

WOOD OIL.—Small spot sales of Hankow have been made at 29s. net.

### Continental Drug and Chemical Markets.

CHRYSAOBIN.—The offers of araroba which a little while ago appeared in the market have recently decreased, so that the falling tendency has been checked, and, generally speaking, the market is steadier.

CITRIC ACID.—Here and there it has been thought necessary to cover partial needs. These sales have contributed to a steadier situation, and quotations of 290m. for immediate delivery and for the first few months of 1910 are being met with.

HYDRASTIS.—More interest has been shown, 18.75m. being paid, and nothing is obtainable under this figure for delivery.

HYDROCHLORIC ACID (CRUDE) is being offered in various quarters at extraordinarily low prices. Present quotations are some 50 per cent. lower than those of last year, and on every side there are large stocks, so that depressed conditions may be counted upon to last well into the coming year.

KOLA.—During November supplies practically failed, but the higher prices ruling quickly brought further shipments, and stocks have been renewed. Fairly large shipments are on the way, as the crops have not yet been exhausted; the lower prices now range from 56m. to 60m. per 100 kilos. on the spot (Hamburg).

LYCOPodium.—It would appear to be confirmed that the crops are normal, and values have somewhat decreased. Case goods are offered at 3.40m. and 3.35m. per kilo. ex Hamburg warehouse.

MILK-SUGAR.—Despite the active demand in the interior and the decrease of production, a steady tendency has not yet made itself felt. The ranks of the "outsiders" have been swelled by an apparently large new factory, which is undercutting the syndicate prices, though only to a slight extent. Should this outside competition make itself more actively felt, further price-cutting may be expected to take place, while a reduction in syndicate prices would be unavoidable. Whereas in Germany milk-sugar is being quoted at about 110m., foreign markets are quoting on an average 76m. Owing to an apparently imminent duty, French buyers are coming to the fore.

QUILLAIM.—The large arrivals on the various markets have brought about an easier tendency. Spot (Hamburg) is quoted at 62m. to 63m. per 100 kilos., while new is offered for delivery at 57.50m. to 58m. Cut is quoted 67.50m. and 70m., according to quantity.

SENEGA.—Owing to higher prices in America, several lots offered on the Hamburg market were quickly taken up at 5.50m. per kilo., and further transactions were effected at 5.60m.

TARTARIC ACID appears to have reached its lowest value, and it is not anticipated that a further reduction will take place in view of the present situation of raw material, despite the great depression.

VANILLIN has for some time been in an uncertain position. Widely differing quotations are current, but the general tendency is towards lower prices, and purchases could be effected at between 28m. and 29m. per kilo.





**TO CORRESPONDENTS.**—A letter for publication should always be a distinct communication; nothing else should be mixed up with it. Each query—no matter whether legal, dispensing, or general—should stand by itself, and the paper upon which it is written should always be backed with the shop stamp. We do not undertake to reply to queries by post. Write clearly and concisely on one side of the paper only. All communications should be accompanied by the names and addresses of the writers. Publication of letters does not imply our agreement with them. Letters received after Wednesday morning cannot as a rule be dealt with in the current week's issue.

#### Almond-oil Substitutes.

SIR,—I shall be glad if you will allow me space to refer to the trade name "oleum amygdale persic," which came in for discussion at the evening meeting of the Pharmaceutical Society last week (*C. & D.*, December 18, p. 929). Nearly four years ago, in an article on "Misleading Trade Names" (*C. & D.*, March 24, 1906), I wrote: "Among the fixed oils we find the oil expressed from peach or apricot kernels still referred to by some firms by a compound name containing the word 'amygdale'; while several years ago the misnomer was expunged from my firm's price-list, a footnote following 'oleum amygdale ang. B.P.,' explaining that 'the oils from peach-kernels, etc., are quoted under the title 'oleum persicæ,' *q.v.*' My firm's label, too, reads, and has read for years, 'Ol. Persicæ, the oil expressed from peach or apricot kernels.' The course adopted has not resulted in any hindrance to business. The origin of the name 'oleum persicæ' is sufficiently obvious; adopting what I believe to be most modern botanical nomenclature, *Prunus Amygdalus* is the almond and *Prunus persica* is the peach. Almond oil is officially designated 'oleum amygdale,' hence I proposed and have used 'oleum persicæ' for the oil from peach-kernels. True, the substitute now is obtained largely from apricot-kernels, so that the name has lost something of its botanical and logical value; but even so it is better than the commercial name, which contains, in addition, the more serious error, the word 'amygd.' But there is another and more cogent reason why the misnomer should be discarded by pharmacists. Any name for the cheaper or substitute oil which comprises the root 'amygd.' is an aid to fraud. Some cases, one quite recent, have been brought to my personal knowledge, in each of which a pharmacist has purchased as 'ol. amygd., guaranteed genuine,' an oil below the market value of almond oil. The samples have been sent to me, and have proved not to be almond oil at all, but the substitute. In each case the defrauded pharmacist has been met with the explanation (!) that 'the oil is genuine oleum amygd. persic.' Such things could scarcely happen if the name of the substitute did not include the name of the genuine thing. On commercial utility grounds, as well as for academic reasons, then, the misnomer 'ol. amygd. persic.' should be consigned to strict oblivion.

Yours faithfully,

CHARLES ALEX. HILL.

Graham Street, City Road, N., December 18.

SIR,—According to Mr. Sage, Persian almond oil might take the place of genuine English almond oil. This I consider to be a mistake, and I am inclined to believe with Mr. C. A. Hill that peach-kernel oil and apricot-kernel oil were much too leniently treated. It does not appear that any reference was made to the fact that these oils are driers, both being quite different in this respect from the genuine article. I published a statement to the contrary many years ago, but I have since satisfied myself that this is not the case. They dry slowly, it is true—much more slowly than linseed oil, or even than poppy-seed oil—but driers they are nevertheless, and this property unfits them for some of the medicinal purposes to which almond oil is applied. Genuine almond oil is also used as a lubricant for fine machinery, such as clocks and watches, for which purpose drying oils are obviously quite unsuitable. It is

a great pity that the name Persian almond was ever used for the oil, as the relatively low price is always a temptation to substitute it for English-pressed almond, by those who are ignorant of the nature of these oils. I agree with Mr. Hill that even yet a distinctive name might be adopted, and there is no reason why 'ol. persic,' 'persic oil,' or even plain 'Persian oil,' might not answer the purpose quite satisfactorily.

Yours faithfully,

London, December 18.

T. MABEN.

#### Adulterated Olive Oil.

SIR,—Under this heading you publish a quotation from a broker's report (*C. & D.*, December 18, p. 944), which indicates that arachis oil is being largely used for admixture with olive oil. May I be allowed space to confirm this statement and to suggest to pharmacists, wholesale as well as retail, that there never was a time when they needed to use so much caution in making purchases? The adulterated oil gets into distributors' hands by some means or other, and I am sorry to say that the excuse for selling it is generally, "We bought it as B.P. oil and it passes the B.P. tests: what more do you want?" Unfortunately, good arachis oil is not the only thing employed: very inferior grades of olive oil are sold and mixed with better ones to meet prices, and the resulting products are capable of fulfilling the very deficient B.P. requirements.

Yours faithfully,

41 Cheapside, E.C., December 18.

C. EDWD. SAGE.

#### Who Stocks the Best?

SIR,—I should like to lodge my protest against "Helium's" suggestion in last week's *C. & D.* that customers can get better value at private chemists' shops than they can at company chemists' shops. As manager of a branch belonging to one of the largest drug companies, I can honestly say that the drugs we sell are B.P. and quite equal in quality to those found on the shelves of the private dealer. Moreover, having a quick turnover, they are often fresher. "Helium," as a chemist, will know how important it is to have a ready sale for drugs. I am inclined to agree with "Yorkshire" that the chemist of the future to make a living will have to work his business on the drug-store principle, but do not agree with him that they should have a little less "touch-me-not" cuff-and-collar order, seeing that all company chemists' shops are now under the management of chemists quite as smart and up to date as our private pharmacists.

Yours faithfully,

MAJOR. (19/52.)

#### Otto of Rose, 1909.

We are indebted to Mr. John C. Umney, F.C.S., for the following extract from a letter which he has received from a Bulgarian otto-of-rose expert:

It was with the greatest interest and pleasure that I read your fine article in the *C. & D.* of November 20, and I hasten to express to you my sincerest thanks for so ably defending the true interests of our beautiful industry. I have battled for the cause of pure otto of rose these twenty-four years, but as yet I have neither succeeded to suppress adulteration among the growers, nor to make all exporters to send out only pure otto of rose. So long as there is a large demand for cheap grades, and so long as our speculators and sophisticators can sell their grossly adulterated as pure otto, and often under the guarantee of answering the analyst's tests, the sophistication of otto, in spite of all our efforts here, will thrive and ever increase. All we may do here to check, to limit, to discourage, to prevent the spread of adulteration will be of no avail so long as the demand for cheap and commercial otto is not stamped out. When chemists of your high standing and wide reputation become advocates and champions of pure otto and raise their powerful voice or use their mighty pen to expose the fraud practised, the cause of pure otto is sure to win. Once the eyes of consumers are opened to the ingenious methods of doctoring otto of rose the demand for cheap goods will rapidly decrease. I fully endorse the five conclusions which you draw from the figures you give about this year's otto and the 1896 otto of rose. Up to 1898-1900 the chief adulterants used were almost exclusively Indian ginger-grass and geranium oils and Algerian geranium; but since 1900 the adulterants used are synthetic otto of rose, geraniol, citronellol, phenylethyl alcohol, natural stearoptene, and other synthetics specially prepared abroad for the purpose of enabling otto of rose thus adulterated to answer the B.P. or the U.S.P. or Parry's or your

tests. This makes it all the more imperative why buyers or users of otto should get their otto supply only from the most reliable firms. The characters of our otto-of-rose crop of 1909 are very nearly the same as the characters of 1896 otto. They vary very little indeed. Here they are, as we have taken them:

	Sp. gr.	Op. Rot.	Ref. Index	Melting-point	Total alcohols
Our distillations ...	0.8570	-2°.36	1.4635	22°	70.25%
London stock ...	0.8573	-2°.30	1.4630	22°	68.5%
Paris stock ...	0.8570	-2°.25	1.4629	22°	70.5%
German and Russian stock ...	0.8570	-2°.45	1.4628	22°	71.0%
New York stock ...	0.8568	-2°.40	1.4626	22°	69.0%

The crop this year would have been only 130,000 oz. if all the otto of rose distilled this year were pure. When it was checked it turned out over 175,000 oz., and when all exported it will further increase to 190,000 oz.

#### Standardisation of Disinfectants.

SIR.—If any further evidence were required that it is impossible to standardise disinfectants as a whole by any one test, it has been furnished in abundance by the report of "The Lancet" commissioners (*C. & D.*, December 11, p. 899). Notwithstanding the large amount of chemical and bacteriological work they have done, it does not mark any advancement in respect of what was previously known concerning the subject. "The Lancet" commissioners have apparently recognised the impossibility of determining the disinfectant value of perchloride of mercury, chloride of lime, and formalin by the bacteriological test which they describe, and yet they have examined "Sanitas Fluid" by it and classified it as a coal-tar disinfectant, although that liquid contains no coal tar and is quite as dissimilar in character from coal-tar preparations as are the three other articles above named. In regard to their experiments and report on coal-tar disinfectants, serious objection is to be taken against the chemical part of the investigation, inasmuch as the chemical process employed to determine the percentage of active principles in these various preparations fails to give satisfactory results. By way of proof "The Lancet" process has been employed in our laboratories in respect of a mixture known to contain 88 per cent. phenoloids, but it only showed the percentage of 60 per cent., whereas in respect of a disinfectant liquid known to contain 52 per cent., Mr. Wynter Blyth's acetone process showed it to contain 54 per cent.—a much more satisfactory result—while "The Lancet" process gave only 34 per cent. As for the bacteriological test which has been made, it simply gives the relative values of the coal-tar disinfectants which were subjected to examination in respect of *Bacillus coli* under the special circumstances observed; just as the standardised *B. typhosus* (Rideal-Walker) test gives relative values in respect of *B. typhosus* under the special conditions observed in that test. In neither case do the results indicate the real disinfectant values of the preparations nor reproduce the conditions under which disinfection has to be carried out in practice by the medical profession and the public at large. This seems to be recognised by the commissioners themselves, for they state that "the conditions of the test are (so) far removed from those of natural disinfection." Up to a point I personally have little cause for complaint, for according to the results which have been published by "The Lancet" commissioners, "Sanitas-Bactox" ranks, among the homogeneous liquids which were tested, equally with one other preparation, as the highest in germicidal power, on the one hand, and takes top place when the cost is compared on a basis of efficiency and in ratio with carbolic acid. When, however, it is examined by the Rideal Walker test it gives a co-efficiency of 20 at least, whereas the other disinfectant mentioned only reveals a co-efficiency of about 15. Again, "Sanitas-Okol" takes first place among coal-tar disinfectants of the emulsion order both with respect to co-efficiency and comparative cost. The bacteriological test which has been employed is really only applicable to coal-tar disinfectants, and it, in common with the so-called Rideal-Walker test, cannot be employed to ascertain the comparative values of disinfectants of other chemical composition. For example, corrosive sublimate, the manganates and permanganates, hypochlorites, sulphurous acid, formaldehyde, peroxide of hydrogen, ordinary "Sanitas Fluid," and many other well-known

disinfectants of varying chemical nature and action are not amenable to such tests, so that their disinfectant values cannot be determined by any such method. "The Lancet" commissioners have altogether disregarded the valuable inhibitive and antiseptic properties of the disinfectants above enumerated, and no attention whatever has been paid to their behaviour as oxidising agents or to their chemical activities in other directions. They have also paid tribute to the autocracy of microbes, but have disregarded altogether the matter of their environment. Every student who has paid the most cursory attention to the subject knows perfectly well that disease is not produced by the mere mechanical presence of micro-organisms, but by their production through chemical reactions of definite poisonous substances, and it is these poisonous substances that constitute the true infectants of disease, and not the microbes themselves. Practical disinfection, therefore, aims at preventing the formation of such infective material, on the one hand, and of destroying it, if and when produced, on the other hand, and is not confined to the mere destruction of universally distributed micro-organisms which, in their proper sphere and under proper control, constitute one of the most beneficent orders of creation. Germicidal value, therefore, is no measure of disinfectant value; removal by washing (cleanliness) is really much more efficacious, up to a point, than destruction of microbic life by the application of germicides, so that rarely is the use of strong germicides called for, at any rate, at the hands of the public, and "Sanitas Fluid" is for most of such uses more than sufficiently strong and may often indeed be diluted with several times its own quantity of water before use. As "The Lancet" has itself recently observed, "there is no factor more favourable to successful invasion of the human body by disease-producing organisms than when the air is rendered stale, warm, and musty," but no one would dream of resorting to the use of strong coal-tar germicides for the purpose of changing the chemical character of such air. Resort would, of course, be had to the employment of a preparation like "Sanitas Fluid" or peroxide of hydrogen, both of which are capable of doing what is wanted by way of germicidal action in addition to their particular value of restoring oxygen to the impure air and the destruction of foul organic matter. The only measure of utility of any disinfectant that is offered for public use is the extent to which it may be satisfactorily employed for the purposes for which it is advocated, and "The Lancet" commissioners have not made any serious attempt to grapple with the problem from this the only rational standpoint.

C. T. KINGZETT, F.I.C., F.C.S.,  
ex-Vice-President Society of Public Analysts; Author  
of "Nature's Hygiene," etc.

#### Apothecaries' Assistants.

SIR.—Apparently from your statement in last week's issue a qualified apothecaries' assistant is exempt from the Pharmacy Act providing he manages the retail department of an apothecary, and yet is liable if he fulfils the same position to a pharmacist. To all intents and purposes do not the two amount to the same service? Under such a circumstance I fail to see why the Pharmaceutical Society should not utilise the enabling clause in the 1908 Act, and accept them on the same terms and exemptions. There is no doubt that pressure will be brought to bear in due course to enforce registration, and to register such as pharmacists' assistants would give some of the pharmacists who at present are unable to pay a Minor man, and consequently run their branches as drug-stores, a chance to employ men that have had some training and yet be within the law.

Yours faithfully,

JACOS. (18/71.)

[There is a great difference between the exemption of a business and the exemption of a person. The apothecary's business is exempt, but a medical practitioner's is not—only himself—so that an assistant to an apothecary may act legally while with him, but illegally when doing exactly the same things for a medical practitioner, or for a chemist or himself or anybody else. The 1908 Act does not authorise the Pharmaceutical Society to register chemists' assistants without examination; had it done so, perhaps "Jacos" might have perceived the absurdity of the present situation.—EDITOR *C. & D.*]



**German Alcohol Super-tax.**

SIR,—I have been interested in the way the spirit-duty has been handled in England, especially in regard to medicinal preparations, particularly as the similar duty has recently been raised in Germany, and apothekers are finding it press heavily upon them in increased stringency of regulations as well as higher duty. Since October 1 the duty has been increased by 35 pfennigs ( $4\frac{1}{4}d.$ ) a litre. All alcohol, whether in bond or in the hands of wholesalers, retailers, or private persons, had to pay this surtax. Alcoholic preparations containing over 20 per cent. of alcohol not intended for internal use and prepared from duty-paid spirits were also subject to the super-tax. Preparations for external use not containing more than 20 per cent. of alcohol, and all alcoholic preparations not intended for internal use ready packed for sale, provided the weight of each package does not exceed one kilo., were not touched, this being in deference to apothekers and druggists; but they have gained little by it, as most alcoholic preparations contain over 20 per cent. The regulations required all persons possessing more than the exempted quantities of brandy or alcohol to report their stock within a week. The Revenue authorities on receipt of the required declaration had to verify the statements made and, if necessary, examine the business books. The Saxon Customs authorities were the first to recognise the difficulties involved in rigidly applying the regulations, and decided that the pharmacist shall class his alcoholic preparations into different groups, each embracing preparations of the same alcoholic strength. The contents of the bottles may be approximately determined. In consequence of the increased tax, the retail prices of tinctures and alcoholic preparations have been increased, so that tinctures which formerly were sold at the rate of 100 grams for  $8\frac{3}{4}d.$  are now sold at  $10\frac{1}{2}d.$  for 100 grams. In contrast with these regulations, the English method seems as simple as A B C, and English pharmacists should be thankful that they have not had to pay surtax upon their stocks.

Yours truly,  
APOTHEKER. (14/12.)

**Subscribers' Symposium.**

(Information Received or Solicited)

**What is Mag. Carb.?**

G. L. (14/47) asks *C. & D.* readers to say whether light or heavy magnes. carb. should be used in the following mixture:

Mag. carb. ...	...	...	...	...	5iv.
Tr. rhei co. ...	...	...	...	...	5v.
Sol. chlorof. ...	...	...	...	...	5ij.
Tinct. nuc. vom. ...	...	...	...	...	5j.
Aq. menth. pip. ad ...	...	...	...	...	5viii.

**To the "C. & D."**

[The following lines by a veteran pharmacist come to us with a sketch showing the *C. & D.* on the bow flag and "Success" on the mizzen.]

When sailing in life's passage-boat,  
That man must be a Goth,  
Who doth not always cut his coat  
According to his cloth.  
Then let us not from duty shrink,  
Tho' heckled on our way;  
And never cease to advertise,  
For "certain 'tis to pay."—R. G. M.

Needless to say, the *C. & D.* has a home here, and I should like to say that to me it is one of the "indispensables" of our calling.—Arthur A. White (Beaconsfield).

**The C. & D. and the Pharmaceutical Society.**

There is no doubt that the *C. & D.* is an excellent trade-journal, and up-to-date chemists would do well to peruse its columns regularly, but it is unfortunate that the dominant tone should be antagonistic to the Pharmaceutical Society, and I should be, as would no doubt many others, much gratified and far better pleased if help were given to the Society to further the well-being of pharmacists and help them out of their present anæmic condition.—L. S. Woolf (Chelsea) [Criticism of the Council's public policy is not necessarily antagonism to the Society, and *C. & D.* criticism has been declared by a President of the Society to be conspicuously fair—a standard which it is our constant endeavour to maintain.—EDITOR *C. & D.*]

**Epicoca.**

We have received under this name a sample of bark described as a drug from Bombay, but have failed to trace the name in any work dealing with medicinal plants of India. The sample is of a corky texture, grey colour, with deep irregular fissures on the exterior. This description agrees very nearly with that of the bark of *Euonymus hamiltonianus*, a large shrub of the Himalayan region and China. The wood of this species is very similar in appearance to that of boxwood, being of a light colour, close and even grained, and valued by the Chinese for carving; it has also been tested in this country as a substitute for boxwood for engraving purposes, but was not thought very highly of. So far as can be gathered, the bark has no economic value.

**Dispensing Notes.****Effervescent Bismuth Mixture.**

SIR,—I received the following prescription to dispense:

Sodæ bicarb. ...	...	...	gr. 110.
Tr. opii ...	...	...	mxx.
Aq. menth. pip. ad ...	...	...	5viii.

The alkaline mixture.

P. ac. citric. ...	...	...	gr. 80.
Bism. subnit. ...	...	...	gr. 160
Ac. hydrocyan. dil. ...	...	...	mxiij.
Aq. ad ...	...	...	5iv.

The acid mixture.

The mixture was taken every two hours the first day and was all right; but on standing over night the last dose had practically lost all its effervescence. The repeat mixture was only given twice a day, and after about two doses the same thing occurred—viz., effervescence had ceased. Can you explain this? An early reply will oblige, as the doctor is anxious to know the reason. 5ss. of p. trag. co. was used to suspend the bism. subnit. Yours truly,

Scor. (11/12.)

[The acid mixture is on the lines of a process for making bismuth citrate. The citric acid enters into combination with the bismuth and forms bismuth citrate. Suspended in the mixture by means of compound powder of tragacanth, the bismuth is in a condition most favourable for obtaining completion of the reaction in a short time; hence the rapid deterioration in the production of effervescence. A little free nitric acid is liberated, but it is insignificant as an equivalent to the citric acid. You will have to recommend the prescriber to order bismuth carbonate and put it into the alkaline mixture.]

**Nux and Iron Mixture.**

SIR,—I have recently had the following prescription to dispense, and made the mixture in the usual way by diluting each ingredient and using fresh infusion. The result was an almost clear and colourless mixture. My customer has returned this, and has told me that when previously prepared in a neighbouring town the medicine was opaque in appearance, although the taste was similar to my preparation. For our mutual satisfaction my customer agreed to send the "scrip" to be again dispensed at the same establishment. The mixture has been shown to me, and I find it to be exactly as described. As I am quite unable to account for the difference, I shall be glad if you will come to my aid in offering a solution of what is to me somewhat of a mystery.

Tinct. nucis vom. ...	...	...	mXL.
Acid. phosph. dil. ...	...	...	5ij.
Liq. ferri perch. ...	...	...	mXL.
Inf. quassiae ad ...	...	...	5vj.

M. Ft. mist.

Sig.: 5ss. t.d.s

Yours truly,  
J. W. C. (50/75.)

[The opacity is most probably due to fat in the tincture of nux vomica. The present B.P. tincture contains much less fat than the 1885 tincture.]

**Legal Queries.**

Before submitting questions for reply in this section please refer to the "*C. & D. Diary, 1909*" for the following subjects: Income-tax, p. 220; Pharmacy Law and Poisons, p. 216, (abroad) p. 211; Spirit Laws, p. 225; Stamped Medicines, p. 221; Trade-marks, p. 194; Wines, Sale of, p. 231; and Legal matters generally, p. 233.

M. P. S. I. (103/5).—Turn to p. 240 of the *C. & D. Diary*, 1910, for information in regard to copyright of photographs.

# Miscellaneous Inquiries.

We endeavour to reply promptly and practically to trade questions of general interest, but cannot guarantee insertion of replies on a particular date, nor can we repeat information given during the past twelve months. A preliminary condition for reporting on samples submitted is that all particulars as to source and uses are given to us.

*J. O. E.* (251/7).—BLACK INK FOR COPYING-PAD.—This is not such a success as the usual violet ink. It is made as follows:

Induline R	...	...	...	...	5iss.
Glycerin	...	...	...	...	xxxv.
Alcohol (60 per cent.)	...	...	...	...	5j.
Water	...	...	...	...	3iss.

Dissolve.

Another method of making a black ink is to combine methyl violet, aniline green, magenta and chrysoidine in a medium such as is given above.

*A. H. H.* (10/51).—BOOK ON BUYING A BUSINESS.—Bromley's "How to Buy a Business" (2s. 6d., Unwin).

*F. M. M.* (256/53).—TO BLACKEN BRASS.—The following are the methods which answer best:

Copper nitrate	...	...	...	10 oz.
Water	...	...	...	20 oz.
Ammonia solution	...	...	...	a sufficiency

Dissolve the copper nitrate in the water and add ammonia until the precipitate at first formed is just re-dissolved. The solution is used warm, the brass article being immersed therein, and when bronzed swilled with water, and either (a) dried out in sawdust, (b) heated after drying out, or (c) immersed in the following solution:

Potassium sulphide	...	...	10 oz.
Hydrochloric acid	...	...	5 oz.
Water	...	...	100 oz.

The results in each case differ in regard to the kind of bronze which is produced.

*I. Y.* (2/39).—DYEING LEAVES.—Aqueous solutions of aniline dyes can be used for this purpose, the leaves being placed in a hot solution. In cases where the surface of the leaves prevents the dye penetrating it is necessary to soften it by soaking in a hot solution of washing soda. A few experiments will soon show you whether the preliminary treatment with alkali is necessary.

*Devonian* (59/5).—LIQUID METAL-POLISH.—The ingredients in the formula given in the *C. & D.*, March 14, 1908, p. 433, need carefully grinding together, and the liquids must be added gradually. It is an improvement to make an emulsion of the liquids by replacing part of the turpentine by cotton-seed oil, a homogeneous liquid being more readily formed. The methods of suspending the powders used by manufacturers are similar to this.

*E. V.* (251/34).—(1) UNGUENTUM MENTHOL.—Lassar's formula is as follows:

Menthol	...	...	...	5iiss.
Bals. Peruviani	...	...	...	5v.
Ung. Wilsoni	...	...	...	
Adipis lanæ hydr.	...	...	a.a.	5iiss.

Misce.

Ung. Wilsoni is a modified zinc ointment—zinc oxide, white wax, of each 20, almond oil 10, benzoated lard 100.

(2) BUTTER FLAVOUR.—See *C. & D.*, December 4, p. 879.

*L. P. S. I.* (257/55).—The mange-lotion probably needs more menstruum, or you may find that if part of the train oil is replaced by mineral oil the trouble will be overcome.

*Drops* (256/36).—Draaber is Norwegian for tincture or drops. Your foreign customer probably requires cholera-drops and sandal oil for the ship's medicine-chest.

*W. O. M.* (11/10).—DEODORISING COCONUT OIL.—We do not know the particulars of commercial processes, as these are kept as trade-secrets. See *C. & D.*, November 20, p. 802.

*Chemicus* (2/27).—DOG SHAMPOO-LIQUID:

Soft soap	...	...	...	30 oz.
Carbolic acid	...	...	...	3 oz.
Eucalyptus oil	...	...	...	1 oz.
Water to	...	...	...	1 gal.

Mix.

Directions.—Wet the dog thoroughly with warm water, beginning with the face. Pour the shampoo-liquid along the back and work up a copious lather on every part of the

animal, adding more water and shampoo-liquid as required. Rinse the dog well in tepid water, wipe dry, and finally exercise.

*J. H.* (3/42).—(1) BAY RUM:

Oil of bay	...	...	...	5iss.
Oil of pimento	...	...	...	mvj.
Oil of orange	...	...	...	mvj.
Rectified spirit	...	...	...	3xiiss.
Distilled water	...	...	...	3ixss.

Mix and filter bright.

(2) GLYCERIN OF THYMOL:

Thymol	...	...	...	gr. j.
Rectified spirit	...	...	...	5j.
Glycerin of borax	...	...	...	5ij.
Compound tincture of cardamoms	...	...	...	5j.
Water to	...	...	...	3xvj.

Mix.

(3) LISTERINE SUBSTITUTE:

Benzoic acid	...	...	...	5j. 32 gr.
Sodium borate	...	...	...	5j. 32 gr.
Boric acid	...	...	...	5ij. 64 gr.
Distilled water	...	...	...	3xlvij.

Dissolve with the aid of heat. Then add the following:

Thymol	...	...	...	5viiij.
Eucalyptol	...	...	...	5ss.
Oil of wintergreen	...	...	...	5ss.
Oil of peppermint	...	...	...	mxv.
Oil of white thyme	...	...	...	mv.
Rectified spirit	...	...	...	3xxiv.

Colour with 10 drops of caramel and add distilled water to 1 gal. Let the mixture stand twenty-four hours and finally pass through a wetted double filter sprinkled with fullers' earth.

*Snail* (1/24).—ARTIFICIAL FERTILISERS.—Referring to the answer we gave to your inquiry in the *C. & D.*, December 11, p. 915, it is convenient to remember that the amount there given in hundredweights can be expressed in the same figures as pounds per 43 square yards. For potting-purposes 1 lb. of fertiliser is mixed with a bushel of soil. The recipe given for general garden use is for a fertiliser that answers for most crops, but the special formulæ are better in that the ingredients more nearly approach the requirements of the particular plant. Lime can advantageously be applied to all crops a few weeks before the manure is used, such dressing not to exceed 5 cwt. per acre. In lawns near the sea it is not necessary to add kainit to the fertiliser, as the soil is probably already fully supplied with chlorides.

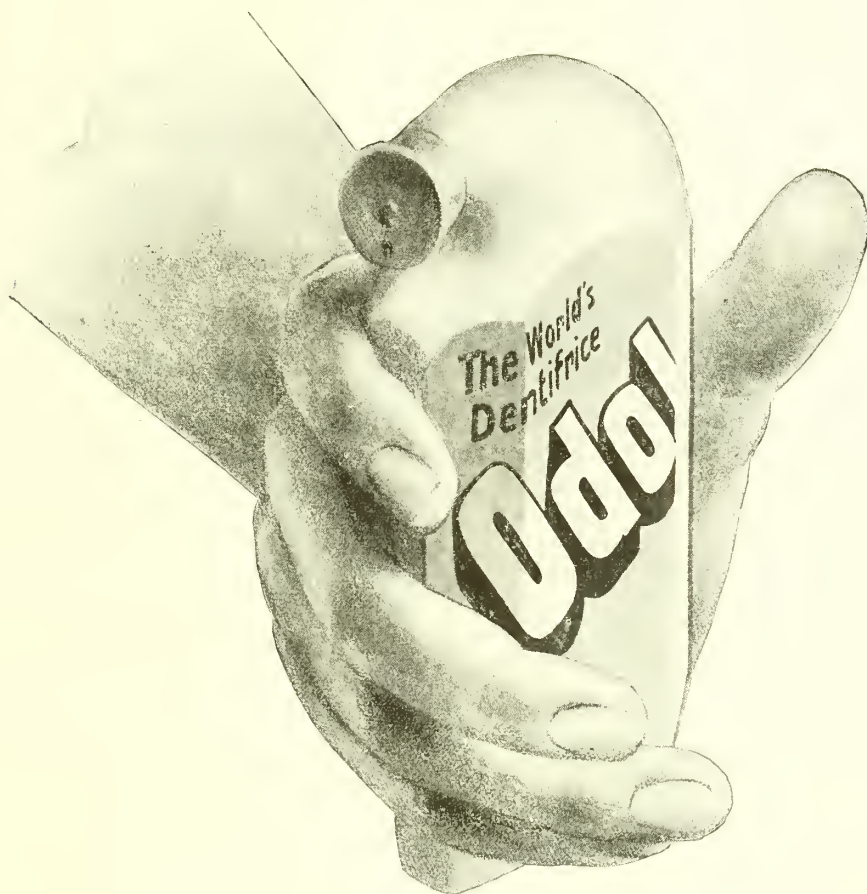
*J. W.* (5/14).—Any floor-covering may assist in accelerating dry-rot, but none causes it. That is due primarily to the space below the wood of the floor not being properly ventilated. Rubberoid does not ventilate, nor does it accelerate dry-rot more than any other covering.

*Information* (10/51).—FOR PALE STOOLS IN CHILDREN of four to eight give 10-grain doses of sodium phosphate or sulphate three times daily if you object to mercury; their action would, however, be reinforced by  $\frac{1}{2}$  grain of calomel given with each dose. Probably the diet needs modifying—say, more meat and less milk and farinaceous food. Liquid farinaceous preparations are more suited for invalids and feverish patients, because such foods are more diluted, and presumably therefore more digestible, and in the latter class of patients the secretion of digestive juices is somewhat in abeyance, and the higher temperature of the body makes a full supply of liquid advisable. There is no doubt, however, that in many cases of invalidism, and in most cases of convalescence, tasty well-cooked solid food might be given with very great advantage, and it is the writer's custom to follow this plan in practice; the practice is supported by Pawloff's experiments on psychic influence in digestion.

"THE ORGANISER" has a portrait of Sir Jesse Boot as a frontispiece this month. It is stated on the editorial page that a firm of photographers were asked if they had a suitable picture of Sir Jesse in stock. "At what theatre is she appearing?" inquired the man who answered the telephone.

JAMAICA EXPORTS.—Among the exports from Jamaica during the financial year 1908-9 were the following, the figures in parentheses representing those of 1907-8: Annatto, 10,308l. (6,926l.); beeswax, 5,134l. (5,859l.); ginger, 43,581l. (46,047l.); honey, 14,323l. (17,496l.); lime-juice, 4,753l. (4,840l.); pimento, 143,623l. (70,233l.); logwood, 46,401l. (72,709l.); logwood extract, 114,460l. (106,863l.).





**What especially distinguishes Odol** from all other mouth-cleansing preparations is its unique antiseptic properties. After the mouth has been rinsed with Odol an all-pervading influence spreads itself imperceptibly over the whole of the interior of the mouth, exerting its power for hours after the rinsing.

It is this lasting effect (which no other preparation possesses) that gives to daily users of Odol the absolute assurance that their mouths are permanently protected against the processes of fermentation and decomposition which, if not guarded against, inevitably destroy the teeth.

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Crescent  
Brand.

These products are made by the Ammonia Process, and are distinguished from others by their great purity.

**Bicarbonate of Soda.** This Bicarbonate answers all the requirements of the British Pharmacopœia. It is a pure, refined, and recrystallised salt, particularly free from metals or any base other than soda. This sodium bicarbonate is specially suitable for the preparation of granular effervescent preparations and salines, seidlitz powders and baking powders, and is well adapted for other medicinal and domestic purposes. It is the purest and cheapest sodium bicarbonate made.

**Concentrated Crystal Soda.** This sodium compound (sodium sesquicarbonate) is a variety of carbonate of soda in small silky crystals, containing much less water than ordinary washing soda; 1 lb. of it does the work of 2 lbs. of washing soda. Concentrated crystal soda is excellently suited for chemists' trade; they can make a speciality of it, and it is also suited for making water-softeners, brush powders, hair-wash powders, and the like.

**Pure Alkali.** 58 Degrees. A dry white powder: dissolves quickly and easily in water, making an excellent detergent for use by printers, bleachers, dyers, and for bottle washing. Is nearly equal to 99 per cent carbonate of soda; is much used by glass, paper, and soap makers. The best alkali for soap powders and washing powders.

Pure  
Soda  
Crystals.

**NOTE.** Proceedings have been taken by the Board of Trade against a person for selling as Soda Crystals an adulterated article, and the High Court has upheld the conviction. See the case of **FOWLER v. CRIPPS**, heard on 8th November, 1905, before a Divisional Court, consisting of the Lord Chief Justice, Mr. Justice Wills, and Mr. Justice Darling.

Caustic  
Soda.

Bleaching  
Powder.

Manufactured from pure Carbonate, and supplied of all degrees of strength.

Retailers can obtain these products through any Wholesale house by specifying Brunner, Mond & Co's "Crescent" Brand. The Manufacturers supply wholesale quantities only, and will quote on application to

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A PERFECT OINTMENT THAT IS THOROUGHLY EFFICIENT AS AN  
ANTIPRURITIC, ANTISEPTIC, LOCAL ANTIPHLOGISTIC and SKIN NUTRIENT,

And is now being successfully used and prescribed by over

**100,000 PHYSICIANS**

In the United States, Canada, and Great Britain,

For Eczema, Erysipelas, Pruritus, and all Itching and Inflammatory Skin Diseases.

THE ONLY POSITIVE REMEDY FOR PRURITUS ANI KNOWN.

## RESINOL SOAP

ABSOLUTELY PURE and SCIENTIFICALLY MEDICATED.

The Best Soap for the Skin, the Hair, Scalp, &c. Promptly removes odours from handling  
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A few years ago, in response to a demand for a high-class concentrated Bronchial Wafer, we perfected the  
finest known formula and introduced it into the market

**ON A LARGE SCALE.**

We spared no effort to make this wafer

**THE BEST OF ITS CLASS**

in therapeutic efficacy—in instantaneous effect—in perfection of form, with the result that to-day although the  
number of "Wafers" on the market is legion, our make is

**UNSURPASSED and UNAPPROACHED.**

Suitable alike for the highest class and the humblest trade, these Wafers offer superlative value to the consumer, and are the  
means of bringing numbers of customers to the Pharmacy, orders being repeated time after time.

In past years we have sold them in millions, and the sale is ever increasing.

Price in bulk: 3/6 per lb.

28 lbs. 3/4. less 5%

1 cwt., 3/2.

Card Boxes, 2/10 per doz.

Artistic Tins for the waistcoat } nett.  
pocket, 2/- per doz.

These Wafers average 120 to the ounce.

The card box contains about 90 Wafers.

The small tin contains about 60 Wafers.

Hand-cut—Potential in effect—of beautiful finish.

**RAIMES & CO., Wholesale Druggists, YORK.**

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Sold by the following Wholesale Druggists in Boxes of 7 lbs. and 14 lbs., stamped by the Manufacturers; also in 1-lb. Boxes and 1-lb. Glass Bottles:—

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Burgoyne, Burdidge & Clay, Dod & Co. (Co).  
Cockburn & Co. (Lim.).  
Corbyn, Stacey & Co.  
Dakin Brothers.  
Davey Hill & Co.  
Duncan, Flockhart & Co.  
Evans, Gadd & Co.  
Evans Sons Lescher & Webb (Lim.).  
Ferris & Co.  
Gale & Co.  
Glasgow Apothecaries' Co.  
Glasgow New Apothecaries' Co.  
Goodall, Backhouse & Co.  
Harker, Stagg & Morgau.  
Harkness, Beaumont & Co.  
Hatricks, W. & R., & Co.  
Hearon, Squire & Francis.

Hirst, Brooke & Hirst.  
Hodgkinson, Prestons & King.  
Hodgkinsons, Clarke & Ward.  
Horner & Sons.  
Huskisson, H. O., & Co.  
Human's Stores (of Edinburgh).  
Ismay, John, & Sons.  
Lofthouse & Saltner.  
Oldfield, Pattinson & Co.  
Pinkerton, Gibson & Co.  
Raines, Clark & Co.  
Raines & Co.  
Rankin & Borland.  
Silversides, R. B. G.  
Southall Bros. & Barclay.  
Sumner, R. & Co.  
Taylor, James.  
Thompson, John (Lim.).  
Willows, Francis, Butler & Thompson.  
Woolley, Jas., Sons & Co. (Lim.).  
Wright, Layman & Umney (Lim.).  
Wyleys (Lim.).

Barry, E. J., New York.  
Carter, Carter & Kilham, Boston.  
Finlay & Branswig, New Orleans.  
Langley & Michaels, San Francisco.  
Lehn & Fink, New York.

McKesson & Robbins, New York.  
Muth Brothers & Co., Baltimore.  
Roller & Shoemaker, Philadelphia.  
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## HUBBUCK'S PURE OXIDE

Is made by Sublimation, and is Warranted to contain upwards of

**99 PER CENT.**

Of Pure Oxide; in fact the impurities are not traceable.

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(Established 1765). LTD.

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Paints, Oils,  
Colours, Varnishes, &c.**

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The Manufacturers supply their Pure Oxide Wholesale only, in quantities of not less than 2 cwt.

## 25% Protected Profit

Prices of Iron-Ox Tablets to the Trade.

### One Shilling size

Under 6 dozen 10/- per dozen net. Cash with order.  
6 dozen 9/9 per doz. net in 30 days, or 9/6 cash in 10 days.  
12 „ 9/3 do. do. or 9/- do. do.

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Under 1½ dozen 40/- per dozen net. Cash with order.  
1½ dozen 39/- per doz. net in 30 days, or 38/- cash in 10 days.  
3 „ 37/- do. do. or 36/- do. do.

### Mixed Orders

The above terms for 6 dozen 1/- size, or 1½ dozen 4/- size will be given on mixed orders value £3. And our very best terms on mixed orders value £6.

Retail Price P.A.T.A. PROTECTED 1/- and 4/- face value. Carriage paid on all goods.

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**Chloryl Anæsthetic (Duncan).** Syn. for Duncan's ABSOLUTE ETHYL CHLORIDE

ALL THE ABOVE ARE **British Products** GUARANTEED TO BE  
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AND ARE MANUFACTURED BY

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78/- per gross.

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Mild laxative and purgative. Non-irritant to the Kidneys. Non-gripping, non-depressant. Efficacious in habitual constipation.  
Dose: 3 to 6 grains. Tablets (12 in tube) and Boubons (6 in box)

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(Borneol Valerianate)

The Standardised Sedative Principle of Valerian. In hysteria and general neurasthenia, climacteric troubles, neuroses.  
Dose: 4 to 12 minims. Gelatine Capsules (BORNYVAL TABLETS) 25 in box.

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Best and safest balsam in acute and chronic gonorrhoea. Astringent, anaesthetic, anaphrodisiac, sedative, bactericidal. The stomach & kidneys remain absolutely unaffected.  
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(Mercury Cholate)

The safest and best tolerated mercurial for internal administration in syphilis. Contains 23.3 per cent. Mercury.  
Dose: 1 to 1½ grains. Gelatine Capsules (50 in box).

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(Albumen Cholate)

Specific for acute and chronic affections of liver and biliary passages, gallstones, dyspepsia, fatty stools, atonic constipation.  
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Antirheumatic and Antineuralgic. Over 18 years' reputation.

**SALIPYRETS** (Salipyrin Riedel in Tablet Form. Specific for Influenza and Colds.

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Contains 12% sulphur, soluble in water. Non-irritant cutaneous disinfectant for burns, eczema and skin diseases. Administered in gout, rheumatism. Does not stain linen.

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Standing the strongest corrosives and highest pressures, for the Chemical and kindred industries.

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Glycero-  
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**Santonin,  
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CRETA PRÆCIPITATA (Calc. Carb. Præcip. Leviss.)

**SPECIAL QUALITY.**

**FINEST, LIGHTEST,  
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PUREST  
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**Every particle is passed  
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Montgomerie & Co., Ltd. (of Bermaline Bread fame), have put on the market an absolutely genuine and high-class Malt Extract for Chemists and the Drug Trade. Owing to the extent to which fraud and adulteration are carried on in connection with Malt Extract, they have found it necessary to back up their assertion of purity with a guarantee of £5,000 and an offer to pay that sum to anyone who can prove that they have ever purchased one ounce of material for adulterating, substituting, or cheapening their Malt Extract. Analysts have no means of determining by chemical analysis pure malt extract from that adulterated with glucose, etc.; therefore, in our opinion, guarantees are useless. Montgomerie's Pure Malt Extract is made only from the finest British barley, carefully selected and malted, and every care is taken to ensure its possessing all the nourishing and digestive properties associated with it, and it can be thoroughly relied on to keep without becoming "candied."

Montgomerie & Co., Ltd., will be pleased to quote for their preparation of Pure Malt Extract and Cod Liver Oil. Here again only the finest malt and oil are used, and at this season of the year it is one of the best selling lines a chemist can have.

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Prices for Pure Malt Extract and Malt Extract and Cod Liver Oil on application.  
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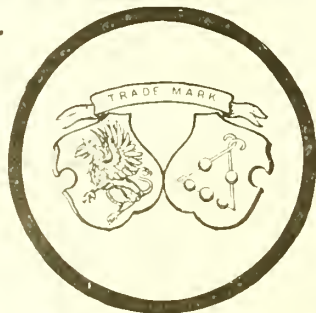
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'Roche' Chemicals answer the requirements of the various Pharmacopœias.  
THEIR STANDARD QUALITY IS RECOGNISED.

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NO ARTIFICIAL BLEACHING; THEREFORE NO RANCIDITY.

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Original Packages can generally be supplied at the Current Prices quoted in the Trade Report of this paper on Terms as below.

Acetanillide, B.P., 1 cwt. @ 11½ lb.; 7 lbs. @ 1/2 lb.; 1 lb. @ 1/3 lb.  
 \*Acet. Ipecac. B.P., 7 lbs. @ 3d. lb.  
 " Scilla. B.P., 7 lbs. @ 3d. lb.  
 \*Acetone, 6 lbs. @ 1/2 lb.; 1 lb. @ 1/4 lb.  
 \*Acid Acet. Glacial, 99%, Carboys 144 lbs. @ 4½ lb.; 12 6½ lb. bots. @ 6½ lb.; 6 lbs. @ 8d.  
 Acid Acetylo-Salicyl, 56 lbs. @ 1, 1½ lb.; 7 lbs. @ 2/1 lb.; 1 lb. @ 2/3 lb.  
 " Benz. B.P., 7 lbs. @ 1/8 lb.; 1 lb. @ 2/- lb.  
 " Boric Pulv., 39/40 cwt. @ 28/- cwt.; 1 cwt. @ 28/6 cwt.; 1 ewgt. 3/- cwt. extra.  
 Acid Carboli Xts., 5 lbs. @ 5d. lb.; 5d. lb.; 10-lb. Tins @ 5/- each; Detached Cryst. 8/- each; 36 1-b. Bots. @ 5½ lb.; Single Bots. 11½ lb.; Detached Cryst. 1 lb. @ 1/1 lb.; Crude Black, 45 Gall. Casks @ 10d. gall.; 1 Gall. Tins @ 1/6 each.  
 " Diethylbarbituric, 16 oz. @ 36/- lb.; 1 oz. @ 2/8 oz. [2/- lb.]  
 " Gallic pur. P.B., 7 lbs. @ 1/10 lb.; 1 lb. @ 1/10 lb.  
 " Hydrobrom., dil. B.P., 6 lbs. @ 7d. lb.  
 " Hydrochlor. Ooml., cases of 4 2-gal. jars, 17/- each; 20 case lots @ 16/- each.  
 " Hydrocyan. P.B., 6 lbs. @ 1/1 lb.; 1 lb. @ 1/4 lb.; 36 1-oz. Vials @ 3/6 doz.  
 " Oxalic Cryst., 5 cwt. @ 3½ lb.; 1 cwt. @ 3½ lb.; 14 lbs. @ 3½ lb.  
 " Phosph. Dil. B.P., 8 lbs. @ 4½ lb.  
 " Salicyl. pulv., 7 lbs. @ 1/1 lb.; phys. pure, 1 lb. @ 3/- lb.  
 " Sulphur. Ooml., cases, 4 2-gal. jars, 17/- each; 20 cases @ 16/- each.  
 " Sulph. Aromat., B.P., 5 lbs. @ 3/8 lb.  
 " Tannic. B.P., 7 lbs. @ 2/2 lb.  
 " Tart., cryst. or pulv., B.P. 1885, 1 cwt. @ 3½ lb.; 7 lbs. @ 10½ lb.; parv. 4½ lb. extra. [10½ lb.]  
 Adeps Benz., B.P., 28 lbs. @ 9½ lb.; 7 cwt. @ Adeps Lana B.P., Anhydrous, 2 cwt. @ 52/6 cwt.; Hydrous @ 49/- cwt.; 1 cwt. @ 2/- cwt., 28 lbs. @ 5/- cwt., 14 lbs. @ 5/- cwt., 7 lbs. @ 12/- cwt. extra.  
 Aloe Barb., English ground, 28 lbs. @ 70/- cwt.; 7 lbs. @ 8d. lb.  
 Aloe, Socot., 7 lbs. @ 1/5 lb.; powder, 7 lbs. @ 1/5 lb.  
 Ergo Eris Pulv., 14 lbs. @ 11d. lb.  
 Aloin, B.P., 1 lb. @ 3/8 lb.  
 Ammon. Benz., 7 lbs. @ 2/8 lb.; 1 lb. @ 3/- lb.  
 Ammon. Brom., P.B., 1 cwt. @ 1/1½ lb.; 7 lbs. @ 1/3 lb.  
 Camphor, English Flowers, "not artificial," 5 lbs. @ 1/10 lb.; ½ oz. 7 lbs. @ 1/11 lb.; ½ oz.; 7 lbs. @ 2/3 lb. Crude, good white about 92% as imported, 140 lbs. @ 1/4 lb.; 10 lbs. @ 1/5 lb.  
 \*Ess. Pear (artificial), Jargonelle, 5 lbs. @ 1/6 lb.; Bergamot, 2/6 lb.  
 \*Ess. Pineapple, 5 lbs. @ 3/4 lb.  
 " Raspberry, 5 lbs. @ 2/2 lb.; 1 lb. @ 2/6 lb.  
 " Vanilla Beans, 5 lbs. @ 4/4 lb.; 1 lb. @ 4/7 lb.  
 \*Ext. Belladonna Liq. B.P., 5 lbs. @ 4/7 lb.; 1 lb. @ 5/- lb.; solid, 7 1 s. @ 2/11 lb.  
 Ext. Cannab. Ind. Alc. B.P., 5 lbs. @ 36/- lb.; 1 lb. @ 37/- lb.  
 Ext. Cascara Sag. Liq., B.P., 10 lbs. @ 1/2 lb.  
 \*Ext. Ergot. Liq. P.B., 5 lbs. @ 2/11 lb.; 1 lb. @ 3/2 lb.  
 Ext. Filicis Liq., P.B., 9 lbs. @ 4/- lb.; 1 lb. @ 4/3 lb. [9½ lb.]  
 Ext. Gent., P.B., Solid, 1 cwt. @ 8½ lb.; 7 lbs. @ 8½ lb.  
 " Glycyrrh. Liq. B.P., 6 lbs. @ 1/4½ lb.  
 " Hamamelis Liq. P.B., 5 lbs. @ 3/5 lb.  
 Ext. Hyoseyam, Solid, B.P., 3 lbs. @ 5/6 lb.; 1 lb. @ 5/11 lb. [11/3 lb.]  
 \*Ext. Ipecac. Liq. P.B., 5 lbs. @ 10/8 lb.; 1 lb. @ 1/1 lb.; 1 lb. @ 10/8 lb. @ 5½ lb.  
 \*Ext. Nuclei Vom. Liq. B.P., 5 lbs. @ 3/- lb.; 1 lb. @ 3/3 lb.  
 " Opil Solid P.B., 1 lb. @ 39/- lb. [4/2 lb.]  
 " Opil Liq. B.P., 5 lbs. @ 3/11 lb.; 1 lb. @ 4/- lb.  
 " Quassia, Solid, 7 lbs. @ 6/- lb.; 1 lb. @ 6/11 lb.  
 Ext. Sarsa Co. Solid; 7 lbs. @ 4/- lb.; 1 lb. @ 4/6 lb.  
 Ferri Carb., 1 cwt. @ 21/- cwt.; 28 lbs. @ 3d. lb.  
 Ferri et Quinina Cit., P.B.; 500 ozs. @ 3d. oz.; 100 ozs. @ 3½ oz.; 25 ozs. @ 3½ oz.  
 Ferri Sulph., pure cryst., 1 cwt. @ 15/-; 7 lbs. @ 3d. lb.

Ferrum Redact. 80%, 28 lbs. @ 1/1 lb.; 7 lbs. @ 1/3 lb.  
 Fol. Hyoseyam. Bien., 7 lbs. @ 6/3 lb.; pulv. 5/3 lb.  
 Fol. Senna Alex. parv. 1 cwt. @ 4d. lb.; 28 lbs. @ 4½ lb.  
 Fol. Senna Tuney. 3½ cwt. @ 2½ lb.; 1 cwt. @ 3½ lb.; 7 lbs. @ 3½ lb.; English Ground, 1 cwt. @ 5½ lb.; 56 lb. @ 6d. lb.; 7 lbs. @ 7d. lb.  
 Formaldehyde, 40%, 132-lb. Carboys @ 52/- each. 7 lbs. @ 7½ lb.  
 Gamboe English Ground, 7 lbs. @ 4/- lb.; 1 lb. @ 4/4 lb.  
 Ginger, English Ground, 1 cwt. @ 52/- cwt.; 7 lbs. @ 6½ lb. [10/- lb.]  
 Gingerine, Extra, 5 lbs. @ 9/6 lb.; 1 lb. @ 1/1 lb.  
 Glycerin. Opt., D.D., 1260 P.B., 1 cwt. @ 99/- cwt.; 56 lbs. @ 100/- cwt.; 12 lbs. @ 1/1½ lb.  
 Honey, fin. White Set, Jamaica, 3½ cwt. @ 36/- cwt.; 28 lbs. @ 47/- cwt.; Californian, 56 lbs. @ 56/- cwt.; 7 lbs. @ 8d. lb.  
 Lin. Camph. P.B., 40 lbs. @ 10½ lb.; 9 lbs. @ 11½ lb.  
 Lin. Sapo Meth., 9 lbs. @ 7d. lb.  
 Lin. Tereb. Acet., B.P., 9 lbs. @ 1/- lb.  
 Linsed c. Oil, Crushed, 3 cwt. @ 18/6 cwt.; 1 cwt. @ 19/- cwt.  
 \*Liq. Ammonii Acetatis Cono. 1-7, 6 lbs. @ 8d. lb.; 1 lb. @ 10½ lb.  
 \*Liq. Ammon. Aromat., 6 lbs. @ 9d. lb.  
 " Antim. Chlor. Pure, 8 lbs. @ 8½ lb.  
 " Arsenicalis, B.P., 7 lbs. @ 4d. lb.; 1 lb. @ 7d. lb.  
 " Arsenii Hydrochlor., P.B., 7 lbs. @ 4d. lb.; 1 lb. @ 7d. lb.  
 " Bismuth. P.B., 6 lbs. @ 10½ lb.  
 " Copaiba. Buoba et Oubeb, 5 lbs. @ 2/6 lb.; 1 lb. @ 2/10 lb.  
 " Easton, p.s. 1-3, B.P., 1 lb. @ 3/- lb.  
 " Ferri Dialysatus, 6 lbs. @ 7d. lb.  
 " Ferri Iod. p.s. 1-7, 1 lb. @ 5/9 lb.  
 " Ferri Perchlor. Fort. P.B., 7 lbs. @ 4d. lb.  
 " Ferri Phosph. Co. p.s. 1-7, 7 lbs. @ 1/6 lb.  
 " Hypophosph. Co. p.s. B.P.C., 1 lb. @ 3/4 lb.  
 " Iodi Fort. B.P., 5 lbs. @ 4/9 lb.  
 Ol. Amygdal. Ang., B.P., 9 lbs. @ 2/3 lb.  
 Ol. Camphor. Essent., White, 80 lbs. @ 42/6 cwt.; 40 lbs. @ 44/- cwt.; brown, 80 lbs. @ 66/- cwt.; 40 lbs. @ 67/6 cwt.  
 Ol. Caryoph. Ang. B.P., 9 lbs. @ 3/3 lb.; 4½ lbs. @ 3/5 lb.  
 Ol. Cocoa Nuclei, finest White, 80 lbs. @ 48/6 cwt.; 40 lbs. @ 6d. lb.  
 Ol. Eucalypt., B.P., 1 cwt. @ 1/1½ lb.; 28 lbs. @ 1/2½ lb.; 9 lbs. @ 1/3½ lb.  
 Ol. Morrhuine, Nov. 1903, finest non-freezing, 25 gall. tin lined barrels @ 77/- per barrel; 2 gall. tins @ 8/- each.  
 Ol. Olivæ P.B., good yellow, 45 gall. Barrel @ 4/3 gall.; 2 gall. @ 5/3 gall.  
 Potass. Cit., B.P., 7 lbs. @ 1/6 lb.  
 Quinina Sulph., B.P., 100 oz. @ 6½ lb. oz.; 25 oz. @ 7½ lb. oz.; 10 oz. @ 8d. oz.  
 Scammony Resin Pulv. B.P., 7 lbs. @ 4/6 lb.; 1 lb. @ 4/11 lb. [10d. lb.]  
 Shellac (Orange), 1½ cwt. @ 72/- cwt.; 7 lbs. @ Soda Caustica, 28-lb. tin @ 8½ lb.; 6 1-lb. Bots. @ 10d. lb.  
 Soda Cit., B.P., 3 lbs. @ 1/10 lb.  
 Soda Salicyl. Pulv., 7 lbs. @ 1/5 lb.; phys. pur., 28 lbs. @ 2/2 lb.; 1 lb. @ 1/2½ lb.  
 Soda Sulphate Recryst., 1 cwt. @ 16/6 cwt.; 7 lbs. @ 4d. lb.  
 Soda Sulphocarbolas B.P., 7 lbs. @ 10½ lb.; 1 lb. @ 1/1 lb.  
 Sodii Bromid. P.B., 1 cwt. @ 1/0½ lb.; 7 lbs. @ 1/2 lb.  
 Soda Hyposulphite, pea cryst., 1 cwt. @ 8/6 cwt.; Spt. Aether Nit. P.B., 4½ lbs. @ 3/6 lb.; 1 lb. @ 3/9 lb.  
 \*Sp. Ammon. Aromat. P.B., 5 lbs. @ 2/8½ lb.  
 \*Spt. Chloroformi, P.B., 5 lbs. @ 3/7 lb.  
 Strontine Bromid., 1 cwt. @ 1/2½ lb.; 7 lbs. @ 1/4½ lb.; 1 lb. @ 1/6 lb.  
 Strychnina cryst. B.P., 25 ozs. @ 2/- oz.; 1 oz. @ 2/3 oz.; Hydrochlor. and Sulphate, 2d. oz. less.  
 Sugar of Milk, B.P., 1 cwt. @ 44/- cwt.; 7 lbs. @ 6d. lb.  
 Sulphonal P.B., 1 lb. @ 9/6 lb.  
 \*Syr. Aurant. P.B., 7 lbs. @ 9d. lb.

\*Syr. Easton B.P., 7 lbs. @ 1/- lb.  
 " Ferri Iodid. P.B., 7 lbs. @ 1/1 lb.  
 " Ferri Phosphat. Co., 7 lbs. @ 5d. lb.  
 " Hypophosph. Co. B.P.C., 7 lbs. @ 9d. lb.  
 " Pruni Virg. B.P., 8 lbs. @ 7d. lb.  
 " Rhamni, 7 lbs. @ 10d. lb.  
 " Rhei P.B., 7 lbs. @ 7½ lb.  
 " Scilla P.B., 7 lbs. @ 4½ lb.  
 " Senna P.B., 7 lbs. @ 8d. lb.  
 " Tolut. P.B., 7 lbs. @ 7d. lb.  
 Thymol, 7 lbs. @ 6/6 lb.; 1 lb. @ 6/10 lb.  
 \*Tinct. Aurantii Recens, B.P., 5 lbs. @ 3/6 lb.; Bond 8½ lb. [6½ lb.]  
 \*Tinct. Belladonna, B.P., 5 lbs. @ 2/11 lb.; Bond, 6½ lb.  
 \*Tinct. Benzoini Comp., P.B., 5 lbs. @ 3/5 lb.; Bond, 8½ lb.  
 \*Tinct. Camph. Comp., P.B., 5 lbs. @ 2/5 lb.; Bond, 6½ lb.  
 \*Tinct. Cantaridis, P.B., 5 lbs. @ 3/9 lb.; bond, 6d. lb.  
 \*Tinct. Capsici, B.P., 5 lbs. @ 3/3 lb.; bond, 6d. lb.  
 \*Tinct. Card. Comp., P.B., 5 lbs. @ 2/6 lb.; bond, 6½ lb.  
 \*Tinct. Catechu, P.B., 5 lbs. @ 2/8 lb.; bond, 6½ lb.  
 \*Tinct. Chlorof. o. Morph. Comp., B.P., 1885, 5 lbs. @ 1/11 lb.; bond, 1/5 lb.  
 \*Tinct. Cinchon. Comp., B.P., 5 lbs. @ 3/4 lb.; bond, 10½ lb.  
 \*Tinct. Cinchon. Rub., P.B., 5 lbs. @ 3/- lb.; bond, 10d. lb.  
 \*Tinct. Digitalis, B.P., 5 lbs. @ 2/8 lb.; bond, 6½ lb.  
 \*Tinct. Gelsem. B.P., 5 lbs. @ 2/10 lb.; Bond, 6½ lb.  
 \*Tinct. Gentianae Comp., B.P., 5 lbs. @ 1/11½ lb.; bond, 6½ lb.  
 \*Tinct. Hyoseyami, B.P., 5 lbs. @ 2/5 lb.; bond, 6½ lb.  
 \*Tinct. Iodi, B.P., 5 lbs. @ 3/11 lb.; bond, 1/1½ lb.; decolor, 5 lbs. @ 4/3 lb.; bond, 1/0½ lb.  
 \*Tinct. Lavandula Comp., B.P., 5 lbs. @ 3/10 lb.; bond, 7½ lb.  
 \*Tinct. Myrrhæ, B.P., 5 lbs. @ 3/9 lb.; bond, 8½ lb.  
 \*Tinct. Nucis Vom., B.P., 5 lbs. @ 2/10 lb.; bond, 6d. lb.  
 \*Tinct. Opil, B.P., 5 lbs. @ 3/5 lb.; bond, 2/- lb.  
 \*Tinct. Opil Amom., B.P., 5 lbs. @ 3/4 lb.; bond, 2/0½ lb.  
 \*Tinct. Opil Aquos., 5 lbs. @ 2/1 lb.  
 \*Tinct. Quiniae Amm., B.P., 5 lbs. @ 2/6 lb.; bond, 11d. lb.  
 \*Tinct. Rhei Co., B.P., 5 lbs. @ 2/2 lb.; bond, 8d. lb.  
 \*Tinct. Scilla, B.P., 5 lbs. @ 2/6 lb.; Bond, 7½ lb.  
 \*Tinct. Senega, P.B., 5 lbs. @ 3/1 lb.; bond, 1/3½ lb.  
 \*Tinct. Strophanth., P.B., 5 lbs. @ 3/5 lb.; bond, 8½ lb.  
 \*Tinct. Valerianæ, 5 lbs. @ 2/8 lb.; bond, 6d. lb.  
 \*Tinct. Valerianæ Ammon., P.B., 5 lbs. @ 3/11 lb.; bond, 8½ lb.  
 \*Tinct. Zingib., P.B., 5 lbs. @ 4/- lb.; bond, 6½ lb.  
 \*Tinct. Zingib. Fortior, 5 lbs. @ 4/3 lb.; bond, 10½ lb.  
 Treacle (Black), 5½ cwt. @ 7/6 cwt.; 24 lbs. @ 2d. lb.  
 Turpentine, True Venice, 40 lbs. @ 1/3; 9 lbs. @ 1/6.  
 Ung. Acid. Boric. P.B., 28 lbs. @ 6½ lb.; Flav. 28 lbs. @ 4½ lb.  
 " Acid Carboli B.P., 28 lbs. @ 8d. lb.; 7 lb. @ 9d. lb.; 1 lb. @ 11d. lb.  
 " Gallæ, P.B., 7 lbs. @ 1/- lb.; 1 lb. @ 1/2 lb.; c. Opio, 7 lbs. @ 2/7 lb.  
 " Hydrargyri B.P., 28 lbs. @ 1/11½ lb.; 7 lbs. @ 2/1½ lb.  
 " Hydrarg. Ammon. B.P., 28 lbs. @ 11d. lb.; 7 lbs. @ 1/2 lb.  
 " Hyd. Nit. Dil., 7 lbs. @ 10d. lb.  
 " Paraff. Alb., P.B., 28 lbs. @ 7d. lb.; 7 lbs. @ 8d. lb.; 1 lb. @ 10d. lb.; Flav. 28 lbs. @ 5d. lb.; 7 lbs. @ 6½ lb.  
 " Resina, P.B., 28 lbs. @ 10d. lb.; 7 lbs. @ 11d. lb.  
 " Sulphuris B.P., 28 lbs. @ 10d. lb.; 7 lbs. @ 11d. lb.  
 " Zinc Oxid. Benz. B.P., 28 lbs. @ 9½ lb.  
 Wax, Japan, 2 cwt. @ 51/- cwt.; 7 lbs. @ 7d. lb.  
 Zinc Oxid. Powder B.P.C., 7 lbs. @ 2/- lb.  
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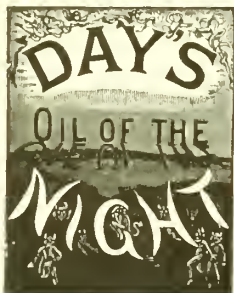
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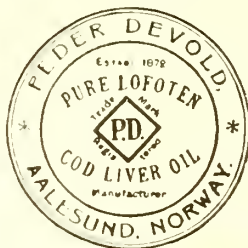
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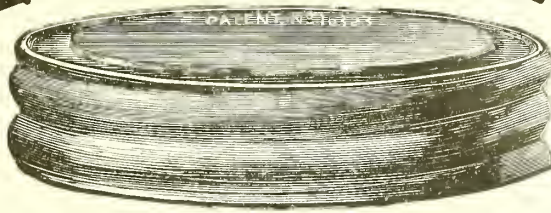
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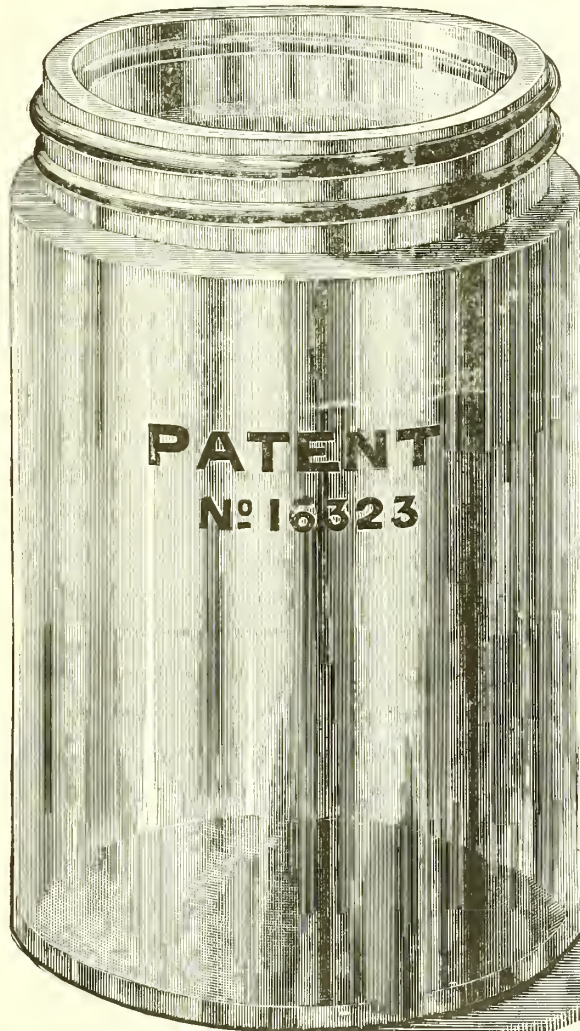
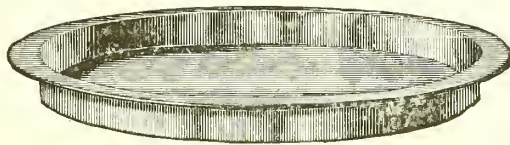
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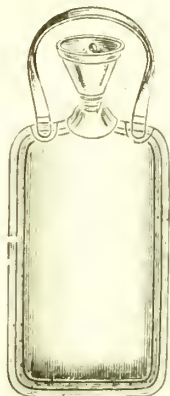
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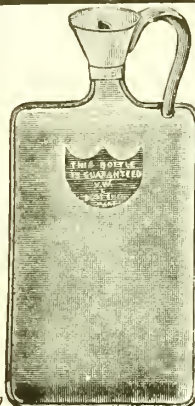
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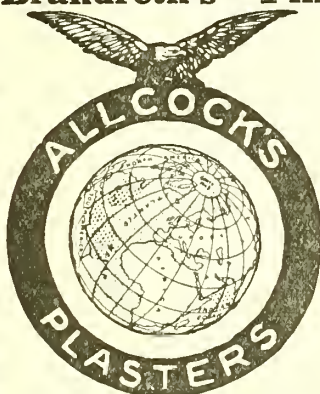
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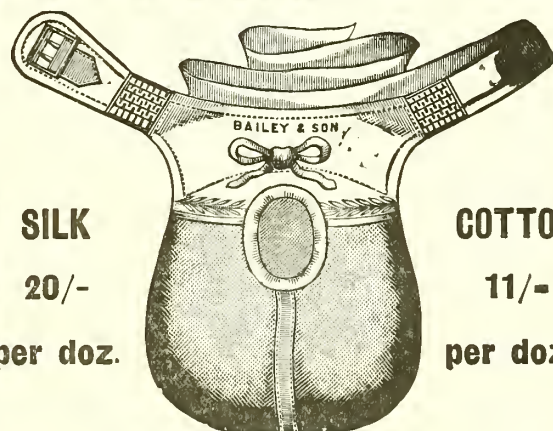
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It can be *washed* and *re-used* as often as required, and obviates all  
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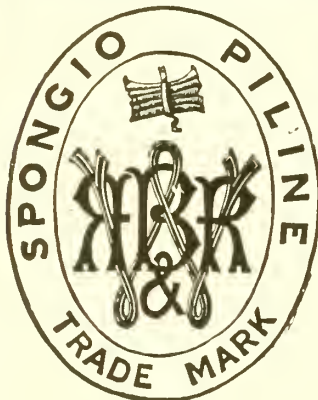
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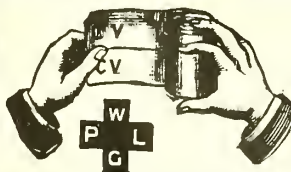
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Good Quality.

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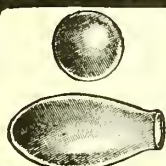
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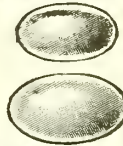
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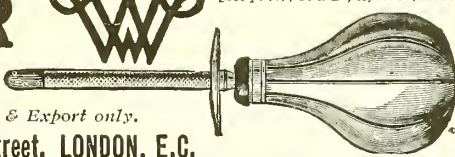
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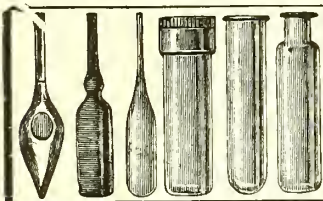
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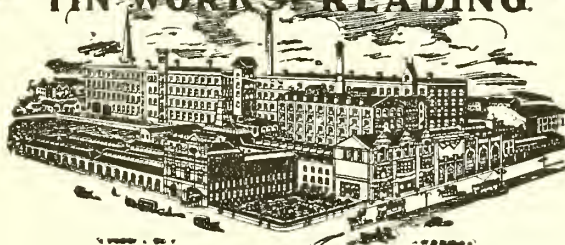
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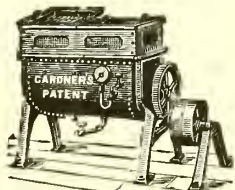
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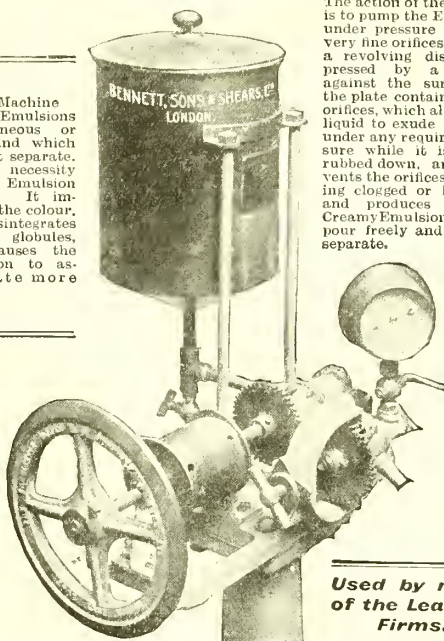
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